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<110> diaDexus, Inc.
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Turner, Leah
Sun, Yongming
Rodriguez, Maria
Tim Burcham

<120> Compositions, Splice Variants and Methods Relating to Colon
Specific Genes and Proteins

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<212> DNA
<213> Homo sapien

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<210> 8
<211> 891
<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<212> DNA

<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<211> 6682

<212> DNA

<213> Homo sapien

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<213> Homo sapien

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 <211> 591
 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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<212> DNA
<213> Homo sapien

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<211> 8227

<212> DNA

<213> Homo sapien

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<210> 35
<211> 2040
<212> DNA
<213> Homo sapien

<220>
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<222> (2040)..(2040)

<223> n=a, c, g or t

<400> 35

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<210> 36

<211> 1912

<212> DNA

<213> Homo sapien

<400> 36

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<210> 37
<211> 1797
<212> DNA
<213> Homo sapien

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<210> 38

<211> 1713

<212> DNA

<213> Homo sapien

<400> 38

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 <211> 2372
 <212> DNA
 <213> Homo sapien

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<211> 5075

<212> DNA

<213> Homo sapien

<400> 40

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<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

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 <213> Homo sapien

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<212> DNA
<213> Homo sapien

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<211> 265
<212> DNA
<213> Homo sapien

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acctcggccg cgaccacgct aagcc 265

<210> 55
<211> 2326
<212> DNA
<213> Homo sapien

<400> 55
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<210> 56

<211> 1001

<212> DNA

<213> Homo sapien

<400> 56

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<210> 57
<211> 1211
<212> DNA
<213> Homo sapien

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 <211> 5572
 <212> DNA
 <213> Homo sapien

<400> 58
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<210> 64

<211> 944

<212> DNA

<213> Homo sapien

<400> 64

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<210> 65

<211> 1426

<212> DNA

<213> Homo sapien

<400> 65

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<210> 66
<211> 739
<212> DNA
<213> Homo sapien

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<210> 67
<211> 3444
<212> DNA
<213> Homo sapien

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<400> 67
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<210> 68

<211> 2081

<212> DNA

<213> Homo sapien

<400> 68

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ctgccaaaggt agttttcttg ctttttgctc tccattcagc atgtgtgtgg gtgtggatgt 1800
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atgtgaaagt gtggaatgga agaaatgtcg atcctgttgt aactgattgt gaacactttt 2040
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<210> 69
<211> 845
<212> DNA
<213> Homo sapien

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<400> 69
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agctcatttg atcgcttcgc cttccttggg aaatgcagtt tctgttcacc tgttgcagaa 180
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gacttcgctc gtactcgtgc gcctcgcttc gcttttctc cgcaaccatg tctgacaaac 360
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tgtctatcta tctggctggc agggaaggaa agaacttgca tgttggtgaa ggaagaagtg 720
gggtggaaga agtggggtgg gacgacagtg aaatctagaa gtgccatttt tttttttgtt 780
caaatgattt taattattgg aatgcacaat ttttttaata tgcaaataaa aagtttaaaa 840
actta 845

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<210> 70
<211> 853
<212> DNA
<213> Homo sapien

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<400> 70
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ggcttctact ttggcattta tcacgggctg tctgcctcac ttacgaagca ggtgccccct 180

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agcacactgc cgggcccctg ggggaacgca cttagggaag cgaagcaaag ctaactgcat    240
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gcactagaag aggcgggtcgg tgcatagcgt cacctcctaa actccgcccc tcggaagcgc    360
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ccagagtttc ttccctccag tgggttcgtg gtctcactga cttcaggaat gaagctgcat    660
acgctcacgc tccacagaaa agttctccaa gtccccactc gaccaggaa gtctgctgt    720
cttcacctgt caccagctac tggggaggct gaggcaggag aatcgcttga accaggagg    780
tggaggttgc tgggagccaa gccaagatca cgccactaca ctccagcctg gcaacagagt    840
gagactccgt ctc                                     853

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<210> 71
<211> 853
<212> DNA
<213> Homo sapien

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<400> 71
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agttgcccgc catggctgag ctggatccgt tcggcgcccc tgccggcgcc cctggcggtc    180
ccgcgctggg gaacggagtg gccggcgccg gcgaagaaga cccggctgcg gccttcttgg    240
cgcagcaaga gagcgagatt gcgggcatcg agaacgacga ggccttcgcc atcctggacg    300
gcggcgcccc cgggccccag ccgcacggcg agccgccggg gggtcggat gctgttgatg    360
gagtaatgaa tggatgaatac taccagaaa gtaatgtcc aacagacagt tatgcagcta    420
tttcacaagt ggatcgattg cagtcagagc ctgaaagtat ccgtaaatgg agagaagaac    480
aaatggaacg cttggaagcc cttgatgcca attctcggaa gcaagaagca gagtggaaag    540
aaaaggcaat aaaggagcta gaagaatggt atgcaagaca ggacgagcag ctacagaaaa    600
caaaagcaaa caacagggca gcagaagaag cctttgtaaa tgacattgac gagtcgtccc    660
caggcactga gtgggaacgg gtggcccggc tgtgtgactt taacccaag tctagcaagc    720
aggccaaaga tgtctccgc atgcgtcag tcctcatctc cctcaagcag gccgctggtg    780
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ccttgttggc ttt                                     853

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<210> 72
<211> 1666
<212> DNA
<213> Homo sapien

<400> 72
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gtttttgtct caccgttggg gtccgtgccg ttcagttgcc cgccatggct gagctggatc 180
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gcgagccgcc ggggggtccg gatgcaggaa agtaatggtc caacagacag ttatgcagct 420
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ataaccccc ccctccacgg agggatcatc aacaacacca acacagtgag agagatcata 1560
agggtggaca caaaaaccgc gaccatacaa tcagctgatg aggagctgaa aaaaaatcat 1620

tgtcatcaca ccgggcggttc aattctaaaa aaaaattata tagaga 1666

<210> 73

<211> 1542

<212> DNA

<213> Homo sapien

<400> 73

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gtttttgtct caccgttggg gtccgtgccg ttcagttgcc cgccatgggt gagctggatc 180
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gagagccgcc ggggggtccg gatgccaatt ctcggaagca agaagcagag tggaaagaaa 420
aggcaataaa ggagctagaa gaatggtatg caagacagga cgagcagcta cagaaaacaa 480
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<210> 74
<211> 1958
<212> DNA
<213> Homo sapien

<400> 74
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cctccacttg ctgattgggt agctcctgaa ccattgttgt cctctgattg gttgttcctt 180
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gccccgggc cccagccgca cggcgagccg ccggggggtc cggatgctgt tgatggagta 600
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aatattatga gaaaaaagg cgcccccaat taagagaggg gtgtatataa taaaaaaga 1620

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cacaaaaaacc gcgaccatac aatcagctga tgaggagctg aaaaaaatc attgtcatca 1920
caccgggcgt tcaattctaa aaaaaatta tatagaga 1958

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<210> 75
<211> 1233
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1232)..(1232)
<223> n=a, c, g or t

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<400> 75
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cctccacttg ctgattgggt agtcctgaa ccattgttgt cctctgattg gttgttcctt 180
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cggtaagagg gggagaaagg gggcaaaacg ttggtttaaa ttggggagaa aaaaaaaggg 1200
tttggggtgt tttgtggggt tgaaatttat cna 1233

<210> 76
<211> 1262
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1262)..(1262)
<223> n=a, c, g or t

<400> 76
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cn 1262

<210> 77
 <211> 1451
 <212> DNA
 <213> Homo sapien

<400> 77
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 gccagaactc tgaaaagatt gggaatggat ggctacaggg gaatcagcct agcaaactgg 180
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<210> 82
 <211> 1001
 <212> DNA
 <213> Homo sapien

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<210> 83

<211> 2419

<212> DNA

<213> Homo sapien

<400> 83

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<210> 84

<211> 1487

<212> DNA

<213> Homo sapien

<400> 84

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<210> 85
<211> 1656
<212> DNA
<213> Homo sapien

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<223> n=a, c, g or t

<220>
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<222> (14)..(14)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

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<210> 86
<211> 1448
<212> DNA
<213> Homo sapien

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<400> 86
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<210> 87

<211> 1594

<212> DNA

<213> Homo sapien

<400> 87

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<210> 88
<211> 991
<212> DNA
<213> Homo sapien

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<400> 88
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<210> 89
<211> 944
<212> DNA
<213> Homo sapien

<220>
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<222> (26)..(26)
<223> n=a, c, g or t

<220>
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<222> (185)..(185)
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<220>
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<222> (189)..(189)
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caggcgaggc cagggacatg gccatggacc tgtgtcggca ggaccccgag tgtgagttct 180

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tntggggcgn cctgagcncc gatgagtact acgcccgtc ngnggactan gtggagctgg      360
tgnagcggaa gcgatgtngg tgtgtggaat gttccatata tctnnnaggc ntatgtgntg      420
gggggtgata ccntgnggat ggagctgccc cagagggatg tgttctcggg cagtgacnca      480
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ggcgcacggg cgagcgggcc gggagccgga gcggcgagg agccggcagc agcggcgcg      180
cgggctccag gcgaggcggg ctccaggcga ggcggtcgac gctcctgaaa acttgcgcg      240
gcgctcgcg cactgcgccc ggagcgatga agatggtcgc gccctggact cggttctact      300
ccaacagctg ctgcttgtgc tgccatgtcc gcaccggcac catcctgctc ggcgtctggt      360
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agtataactt ttcaagttct gaactgggag gtgactttga gttcatggat gatgccaa      480
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gagcgtacaa gcaacgcgca gcctggatca tccattctt ctgttaccag atctttgact      600
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<211> 287
<212> DNA
<213> Homo sapien

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<211> 235
<212> DNA
<213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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Glu Val Phe Arg Ser Tyr Val Phe Tyr Arg His Gln Gln Glu Gln Glu
35 40 45

Ala Glu Gly Val Ala Ala Pro Ala Asp Pro Glu Met Val Thr Leu Pro
50 55 60

Leu Gln Pro Ser Ser Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile
65 70 75 80

Ile Gly Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln Thr Met
85 90 95

Leu Gln His Leu Gln Pro Thr Ala Glu Asn Ala Tyr Glu Tyr Phe Thr
100 105 110

Lys Ile Ala Thr Ser Leu Phe Glu Ser Gly Ile Asn Trp Gly Arg Val
115 120 125

Val Ala Leu Leu Gly Phe Gly Tyr Arg Leu Ala Leu His Val Tyr Gln
130 135 140

His Gly Leu Thr Gly Phe Leu Gly Gln Val Thr Arg Phe Val Val Asp
145 150 155 160

Phe Met Leu His His Cys Ile Ala Arg Trp Ile Ala Gln Arg Gly Gly
165 170 175

Trp Val Ser Ile Gln Gly Leu Gln Cys Pro Pro Cys Cys Trp Gly Cys
180 185 190

Pro Ser Pro Arg Pro His Pro Phe Leu Gly Phe Leu Tyr Leu Leu Leu
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Ala Ser Leu
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<212> PRT

<213> Homo sapien

<400> 96

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 20 25 30

Pro Gly Asp Pro Leu Arg Gly Arg Leu His Ala Ala Ser Leu His Cys
 35 40 45

Pro Val Asp Cys Thr Glu Gly Trp Leu Gly Glu Tyr Pro Arg Thr Ala
 50 55 60

Met Ser Ser Leu Leu Leu Gly Leu Pro Leu Ser Gln Ala Pro Pro Leu
 65 70 75 80

Pro Arg Val Pro Ile Ser Ser Ala Ser Leu Ser Val Thr Thr Leu Phe
 85 90 95

Leu Pro Ala Gly Gly Ser Pro Glu Leu Gly Gln Trp Ser His Pro Glu
 100 105 110

Arg Ala Gly Gly Ser Gly Cys Gly Ser Val Gly Pro Val Cys Gly Thr
 115 120 125

Lys Ile Leu Gln Ile Met Thr Pro Lys Gly Ala Leu Trp Gly Pro Gly
 130 135 140

Ser Asp Pro Cys Leu Asp Leu Ser Glu Val Phe Ala Phe Ser Ala Pro
 145 150 155 160

Leu Gln Gly Ser Pro Leu Lys Ser Thr Glu Ala Leu Ala Ser Val His
 165 170 175

Ser Ser Phe Gly Gly Pro Leu Arg Gly Gly Gln Ser Gly Cys Arg Gly
 180 185 190

Thr Ser Thr Leu His Gly Ala Ser Gly Pro Ser Leu Trp Ala Gln Gly
 195 200 205

Leu Trp Pro Ser Pro Pro Ser Ala Leu Trp Asp Leu Leu Ser Pro Val
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Cys
 225

<210> 97
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 <212> PRT
 <213> Homo sapien

<400> 97

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 20 25 30

Arg Ile Pro Glu Pro Trp Ile Thr Pro Pro Asp Leu Gln Glu Lys Ile
 35 40 45

His Ile Phe Ala Gln Lys Cys Leu Phe Leu Thr Glu Ser Leu Lys Gln
 50 55 60

Phe Thr Glu Lys Met Gln Ser Asp Met Glu Lys Ile Gln Glu Leu Arg
 65 70 75 80

Glu Ala Gln Leu Tyr Ser Val Asp Val Thr Leu Asp Pro Asp Thr Ala
 85 90 95

Tyr Pro Ser Leu Ile Leu Ser Asp Asn Leu Arg Gln Val Arg Tyr Ser
 100 105 110

Tyr Leu Gln Gln Asp Leu Pro Asp Asn Pro Glu Arg Phe Asn Leu Phe
 115 120 125

Pro Cys Val Leu Gly Ser Pro Cys Phe Ile Ala Gly Arg His Tyr Trp
 130 135 140

Glu Val Glu Val Gly Asp Lys Ala Lys Trp Thr Ile Gly Val Cys Glu
 145 150 155 160

Asp Ser Val Cys Arg Lys Gly Gly Val Thr Ser Ala Pro Gln Asn Gly
 165 170 175

Phe Trp Ala Val Ser Leu Trp Tyr Gly Lys Glu Tyr Trp Ala Leu Thr
 180 185 190

Ser Pro Met Thr Ala Leu Pro Leu Arg Thr Pro Leu Gln Arg Val Gly
 195 200 205

Ile Phe Leu Asp Tyr Asp Ala Gly Glu Val Ser Phe Tyr Asn Val Thr

210 215 220
 Glu Arg Cys His Thr Phe Thr Phe Ser His Ala Thr Phe Cys Gly Pro
 225 230 235 240
 Val Arg Pro Tyr Phe Ser Leu Ser Tyr Ser Gly Gly Lys Ser Ala Ala
 245 250 255
 Pro Leu Ile Ile Cys Pro Met Ser Gly Ile Asp Gly Phe Ser Gly His
 260 265 270
 Val Gly Asn His Gly His Ser Met Glu Thr Ser Pro
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 <211> 321
 <212> PRT
 <213> Homo sapien

 <400> 98
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 35 40 45
 Arg Asn Ser Ile Ser Lys Lys Lys Lys Ile Tyr Ser Cys Phe Leu Asn
 50 55 60
 Leu Ala Glu Arg Ile Arg Ile Pro Glu Pro Trp Ile Thr Pro Pro Asp
 65 70 75 80
 Leu Gln Glu Lys Ile His Ile Phe Ala Gln Lys Cys Leu Phe Leu Thr
 85 90 95
 Glu Ser Leu Lys Gln Phe Thr Glu Lys Met Gln Ser Asp Met Glu Lys
 100 105 110
 Ile Gln Glu Leu Arg Glu Ala Gln Leu Tyr Ser Val Asp Val Thr Leu
 115 120 125
 Asp Pro Asp Thr Ala Tyr Pro Ser Leu Ile Leu Ser Asp Asn Leu Arg
 130 135 140

Gln Val Arg Tyr Ser Tyr Leu Gln Gln Asp Leu Pro Asp Asn Pro Glu
145 150 155 160

Arg Phe Asn Leu Phe Pro Cys Val Leu Gly Ser Pro Cys Phe Ile Ala
165 170 175

Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Lys Ala Lys Trp Thr
180 185 190

Ile Gly Val Cys Glu Asp Ser Val Cys Arg Lys Gly Gly Val Thr Ser
195 200 205

Ala Pro Gln Asn Gly Phe Trp Ala Val Ser Leu Trp Tyr Gly Lys Glu
210 215 220

Tyr Trp Ala Leu Thr Ser Pro Met Thr Ala Leu Pro Leu Arg Thr Pro
225 230 235 240

Leu Gln Arg Val Gly Ile Phe Leu Asp Tyr Asp Ala Gly Glu Val Ser
245 250 255

Phe Tyr Asn Val Thr Glu Arg Cys His Thr Phe Thr Phe Ser His Ala
260 265 270

Thr Phe Cys Gly Pro Val Arg Pro Tyr Phe Ser Leu Ser Tyr Ser Gly
275 280 285

Gly Lys Ser Ala Ala Pro Leu Ile Ile Cys Pro Met Ser Gly Ile Asp
290 295 300

Gly Phe Ser Gly His Val Gly Asn His Gly His Ser Met Glu Thr Ser
305 310 315 320

Pro

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<212> PRT
<213> Homo sapien

<400> 99

Thr Ile Tyr Gly Pro Lys Val Ala Lys Ile Leu Arg Ala Ser Val Glu
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Leu Leu Asp Glu Met Lys Phe Ser Leu Glu Lys Leu His Gln Gly Ile

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 Thr Val Ser Asp Pro Pro Phe Asp Thr Gln Pro Arg Pro Asp Asp Ser
 35 40 45
 Phe Ser
 50
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 <212> PRT
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 20 25 30
 Gly His Ala Ala Val Pro Pro His Gly Gln Met Asp Thr Gln Ser Leu
 35 40 45
 Gly Gly His Cys Trp His Gly Val Ser Ala Arg His Leu Pro Pro Ala
 50 55 60
 Pro Pro Asp Gly Pro Thr Arg Gly Cys Ala Asp Val Gly Thr Thr Glu
 65 70 75 80
 Pro Arg Cys Thr Leu Asp Gln Gly Ala Gly Pro Ala Ser Gly Arg Pro
 85 90 95
 Pro Thr Asn Leu Phe Cys Pro Ala Glu Val Val Gly Gly Ala Ser Trp
 100 105 110
 Gly Ala Arg Phe Pro Gln Leu Trp Val
 115 120
 <210> 101
 <211> 386
 <212> PRT
 <213> Homo sapien
 <400> 101
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Pro Ser Leu Arg Lys Arg Leu Gln Leu Leu Pro Pro Ser Arg Pro Pro
20 25 30

Pro Glu Pro Glu Pro Gly Thr Met Val Glu Lys Gly Ser Asp Ser Ser
35 40 45

Ser Glu Lys Gly Gly Val Pro Gly Thr Pro Ser Thr Gln Ser Leu Gly
50 55 60

Ser Arg Asn Phe Ile Arg Asn Ser Lys Lys Met Gln Ser Trp Tyr Ser
65 70 75 80

Met Leu Ser Pro Thr Tyr Lys Gln Arg Asn Glu Asp Phe Arg Lys Leu
85 90 95

Phe Ser Lys Leu Pro Glu Ala Glu Arg Leu Ile Val Asp Tyr Ser Cys
100 105 110

Ala Leu Gln Arg Glu Ile Leu Leu Gln Gly Arg Leu Tyr Leu Ser Glu
115 120 125

Asn Trp Ile Cys Phe Tyr Ser Asn Ile Phe Arg Trp Glu Thr Thr Ile
130 135 140

Ser Ile Gln Leu Lys Glu Val Thr Cys Leu Lys Lys Glu Lys Thr Ala
145 150 155 160

Lys Leu Ile Pro Asn Ala Ile Gln Ile Cys Thr Glu Ser Glu Lys His
165 170 175

Phe Phe Thr Ser Phe Gly Ala Arg Asp Arg Cys Phe Leu Leu Ile Phe
180 185 190

Arg Leu Trp Gln Asn Ala Leu Leu Glu Lys Thr Leu Ser Pro Arg Glu
195 200 205

Leu Trp His Leu Val His Gln Cys Tyr Gly Ser Glu Leu Gly Leu Thr
210 215 220

Ser Glu Asp Glu Asp Tyr Val Ser Pro Leu Gln Leu Asn Gly Leu Gly
225 230 235 240

Thr Pro Lys Glu Val Gly Asp Val Ile Ala Leu Ser Asp Ile Thr Ser
245 250 255

Ser Gly Ala Ala Asp Arg Ser Gln Glu Pro Ser Pro Val Gly Ser Arg

260 265 270
 Arg Gly His Val Thr Pro Asn Leu Ser Arg Ala Ser Ser Asp Ala Asp
 275 280 285
 His Gly Ala Glu Glu Asp Lys Glu Glu Gln Val Asp Ser Gln Pro Asp
 290 295 300
 Ala Ser Ser Ser Gln Thr Val Thr Pro Val Ala Glu Pro Pro Ser Thr
 305 310 315 320
 Glu Pro Thr Gln Pro Asp Gly Pro Thr Thr Leu Gly Pro Leu Asp Leu
 325 330 335
 Leu Pro Ser Glu Glu Leu Leu Thr Asp Thr Ser Asn Ser Ser Ser Ser
 340 345 350
 Thr Gly Glu Glu Gly Glu Ala Gly Gly Pro Asn Ser Phe Ala Ser Gly
 355 360 365
 Thr Cys Lys Pro Arg Ser Val Leu Ser Lys Arg Gly Trp Ile Arg Pro
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 Gln His
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 <211> 190
 <212> PRT
 <213> Homo sapien
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 20 25 30
 Leu Leu Leu Gly Leu Cys Gly Pro Ser Pro Pro Ser Leu Pro Gly Trp
 35 40 45
 Gly Arg Arg Arg Asp Ala Ala Gly Arg Gly Lys Glu Gly Gly Val Ala
 50 55 60
 Asp Ala Ala Ala Ala Ser Gly Gly Ser Gly Leu Leu Cys Gly Arg Leu
 65 70 75 80

Gly Arg Val Gly Ala Ala Ala Ala Glu Gly Gln Ala Gly Ala Leu Arg
85 90 95

Gly Arg Pro Ala Gln Pro Ser Pro Ala Gln Pro Ser Pro Ala Leu Pro
100 105 110

Cys Pro Ala Leu Pro Cys Ala Arg Gly Ala Pro Thr Ala Pro His Pro
115 120 125

Cys Ser Thr Pro His Pro Thr Leu Ala Gly Ala Arg Gln Ala Ala Pro
130 135 140

His Arg Ser Gly Asn Gly Cys Ser Ser Cys Pro Gln Ala Gly Pro His
145 150 155 160

Leu Ser Gln Asn Gln Ala Pro Trp Trp Arg Arg Asp Gln Ile Ala Pro
165 170 175

Gln Arg Arg Val Gly Cys Leu Gly Pro Pro Ala Pro Arg Ala
180 185 190

<210> 103
<211> 442
<212> PRT
<213> Homo sapien

<400> 103

Arg Arg Gly Gly Leu Arg Arg Leu Arg Pro Phe Val Arg Ala Val Gly
1 5 10 15

Ser Gly Gly Gly Gly Gly Arg Gly Arg Pro Gly Arg Cys Pro Ala Gly
20 25 30

Thr Pro Ser Ala Ala Gln Pro Arg Ala Ala Gln Pro Cys Pro Ala Leu
35 40 45

Pro Cys Pro Ala Leu Arg Pro Gly Arg Ala His Arg Ala Ala Ser Met
50 55 60

Phe Asp Thr Thr Pro His Ser Gly Arg Ser Thr Pro Ser Ser Ser Pro
65 70 75 80

Ser Leu Arg Lys Arg Leu Gln Leu Leu Pro Pro Ser Arg Pro Pro Pro
85 90 95

Glu Pro Glu Pro Gly Thr Met Val Glu Lys Gly Ser Asp Ser Ser Ser

100										105					110				
Glu	Lys	Gly	Gly	Val	Pro	Gly	Thr	Pro	Ser	Thr	Gln	Ser	Leu	Gly	Ser				
		115					120					125							
Arg	Asn	Phe	Ile	Arg	Asn	Ser	Lys	Lys	Met	Gln	Ser	Trp	Tyr	Ser	Met				
	130					135						140							
Leu	Ser	Pro	Thr	Tyr	Lys	Gln	Arg	Asn	Glu	Asp	Phe	Arg	Lys	Leu	Phe				
145					150					155					160				
Ser	Lys	Leu	Pro	Glu	Ala	Glu	Arg	Leu	Ile	Val	Asp	Tyr	Ser	Cys	Ala				
				165					170					175					
Leu	Gln	Arg	Glu	Ile	Leu	Leu	Gln	Gly	Arg	Leu	Tyr	Leu	Ser	Glu	Asn				
			180					185						190					
Trp	Ile	Cys	Phe	Tyr	Ser	Asn	Ile	Phe	Arg	Trp	Glu	Thr	Thr	Ile	Ser				
		195					200						205						
Ile	Gln	Leu	Lys	Glu	Val	Thr	Cys	Leu	Lys	Lys	Glu	Lys	Thr	Ala	Lys				
	210					215						220							
Leu	Ile	Pro	Asn	Ala	Ile	Gln	Ile	Cys	Thr	Glu	Ser	Glu	Lys	His	Phe				
225					230					235					240				
Phe	Thr	Ser	Phe	Gly	Ala	Arg	Asp	Arg	Cys	Phe	Leu	Leu	Ile	Phe	Arg				
				245					250					255					
Leu	Trp	Gln	Asn	Ala	Leu	Leu	Glu	Lys	Thr	Leu	Ser	Pro	Arg	Glu	Leu				
			260					265					270						
Trp	His	Leu	Val	His	Gln	Cys	Tyr	Gly	Ser	Glu	Leu	Gly	Leu	Thr	Ser				
		275					280					285							
Glu	Asp	Glu	Asp	Tyr	Val	Ser	Pro	Leu	Gln	Leu	Asn	Gly	Leu	Gly	Thr				
	290					295					300								
Pro	Lys	Glu	Val	Gly	Asp	Val	Ile	Ala	Leu	Ser	Asp	Ile	Thr	Ser	Ser				
305					310					315					320				
Gly	Ala	Ala	Asp	Arg	Ser	Gln	Glu	Pro	Ser	Pro	Val	Gly	Ser	Arg	Arg				
				325					330					335					
Gly	His	Val	Thr	Pro	Asn	Leu	Ser	Arg	Ala	Ser	Ser	Asp	Ala	Asp	His				
			340					345					350						

Gly Ala Glu Glu Asp Lys Glu Glu Gln Val Asp Ser Gln Pro Asp Ala
 355 360 365

Ser Ser Ser Gln Thr Val Thr Pro Val Ala Glu Pro Pro Ser Thr Glu
 370 375 380

Pro Thr Gln Pro Asp Gly Pro Thr Thr Leu Gly Pro Leu Asp Leu Leu
 385 390 395 400

Pro Ser Glu Glu Leu Leu Thr Asp Thr Ser Asn Ser Ser Ser Ser Thr
 405 410 415

Gly Glu Glu Gly Leu Gly Cys Pro Ala Ser Arg Pro Leu Arg Pro Pro
 420 425 430

Pro His Gln Leu Cys Leu Pro Cys Gly Arg
 435 440

<210> 104
 <211> 99
 <212> PRT
 <213> Homo sapien

<400> 104

Met Glu Asp Pro Ser Val Arg Cys Ser Phe Gln Leu Thr Ser Gly Arg
 1 5 10 15

Arg Thr Ser Ala Met Lys Val Thr Gly Ile Phe Leu Leu Ser Ala Leu
 20 25 30

Ala Leu Leu Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg
 35 40 45

Glu Ala Lys Cys Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp
 50 55 60

Pro Val Cys Gly Thr Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu
 65 70 75 80

Cys Phe Glu Asn Arg Lys Arg Gln Thr Ser Ile Leu Ile Gln Lys Ser
 85 90 95

Gly Pro Cys

<210> 105
 <211> 106
 <212> PRT
 <213> Homo sapien

<400> 105

Ala Leu Asp Val Lys Val Ser His Glu Gly Gly Arg Ser Val Leu Pro
 1 5 10 15

Gln Ser Lys Tyr Ser Val Arg His His Ile Pro Tyr Pro Ser Asn Gly
 20 25 30

Glu Leu His Ser Gln Tyr His Gly Tyr Tyr Val Lys Leu Asn Ala Pro
 35 40 45

Gln His Pro Pro Val Asp Val Glu Asp Gly Asp Gly Ser Ser Gln Ser
 50 55 60

Ser Ser Ala Leu Val His Lys Pro Ser Ala Asn Lys Trp Ser Pro Ser
 65 70 75 80

Lys Ser Val Thr Lys Pro Val Ala Lys Glu Ser Lys Ala Glu Pro Lys
 85 90 95

Ala Lys Lys Ser Glu Leu Ala Ile Pro Lys
 100 105

<210> 106
 <211> 93
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (93)..(93)
 <223> X=any amino acid

<400> 106

Ala Leu Asp Val Lys Val Ser His Glu Gly Gly Arg Ser Val Leu Pro
 1 5 10 15

Gln Ser Lys Tyr Ser Val Arg His His Ile Pro Tyr Pro Ser Asn Gly
 20 25 30

Glu Leu His Ser Gln Tyr His Gly Tyr Tyr Val Lys Leu Asn Ala Pro
 35 40 45

Gln His Pro Pro Val Asp Val Glu Asp Gly Asp Gly Ser Ser Gln Ser

50					55					60					
Ser	Ser	Ala	Leu	Val	His	Lys	Pro	Ser	Ala	Asn	Lys	Trp	Ser	Pro	Ser
65					70					75					80

Lys Ser Val Thr Lys Pro Val Ala Lys Glu Ser Lys Xaa
85 90

<210>	107
<211>	100
<212>	PRT
<213>	Homo sapien

<400> 107

Met Tyr Met Tyr Ile Gln Thr Thr Thr Leu Thr Val Ser Met Ser Leu
1 5 10 15

Ser Ala Ser Val Ser Leu Gly Met Leu Tyr Met Pro Lys Val Tyr Ile
20 25 30

Ile Ile Phe His Pro Glu Gln Asn Val Gln Lys Arg Lys Arg Ser Phe
35 40 45

Lys Ala Val Val Thr Ala Ala Thr Met Gln Ser Lys Leu Ile Gln Lys
50 55 60

Gly Asn Asp Arg Pro Asn Gly Glu Val Lys Ser Glu Leu Cys Glu Ser
65 70 75 80

Leu Glu Thr Asn Thr Ser Ser Thr Lys Thr Thr Tyr Ile Ser Tyr Ser
85 90 95

Asn His Ser Ile
100

<210>	108
<211>	558
<212>	PRT
<213>	Homo sapien

<400> 108

Trp Lys Phe Thr Val Thr Phe Lys Ser Arg Lys Leu Ala Asn Ala His
1 5 10 15

Arg Ala Phe Ser Pro Trp Ala Leu Met Val Ala Ser Arg Arg Cys Ser
20 25 30

Leu Arg Trp Cys Pro Phe Cys Cys Val Ala Arg Ile Asn Phe Gly Ser
 35 40 45

Trp Ile Ala Ile Pro Pro Val Glu Lys Met Val Cys Glu Gly Lys Arg
 50 55 60

Ser Ala Ser Cys Pro Cys Phe Phe Leu Leu Thr Ala Lys Phe Tyr Trp
 65 70 75 80

Ile Leu Thr Met Met Gln Arg Thr His Ser Gln Glu Tyr Ala His Ser
 85 90 95

Ile Arg Val Asp Gly Asp Ile Ile Leu Gly Gly Leu Phe Pro Val His
 100 105 110

Ala Lys Gly Glu Arg Gly Val Pro Cys Gly Glu Leu Lys Lys Glu Lys
 115 120 125

Gly Ile His Arg Leu Glu Ala Met Leu Tyr Ala Ile Asp Gln Ile Asn
 130 135 140

Lys Asp Pro Asp Leu Leu Ser Asn Ile Thr Leu Gly Val Arg Ile Leu
 145 150 155 160

Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Thr Phe
 165 170 175

Val Gln Ala Leu Ile Glu Lys Asp Ala Ser Asp Val Lys Cys Ala Asn
 180 185 190

Gly Asp Pro Pro Ile Phe Thr Lys Pro Asp Lys Ile Ser Gly Val Ile
 195 200 205

Gly Ala Ala Ala Ser Ser Val Ser Ile Met Val Ala Asn Ile Leu Arg
 210 215 220

Leu Phe Lys Ile Pro Gln Ile Ser Tyr Ala Ser Thr Ala Pro Glu Leu
 225 230 235 240

Ser Asp Asn Thr Arg Tyr Asp Phe Phe Ser Arg Val Val Pro Pro Asp
 245 250 255

Ser Tyr Gln Ala Gln Ala Met Val Asp Ile Val Thr Ala Leu Gly Trp
 260 265 270

Asn Tyr Val Ser Thr Leu Ala Ser Glu Gly Asn Tyr Gly Glu Ser Gly

275	280	285
Val Glu Ala Phe Thr Gln Ile Ser Arg Glu Ile Gly Gly Val Cys Ile 290 295 300		
Ala Gln Ser Gln Lys Ile Pro Arg Glu Pro Arg Pro Gly Glu Phe Glu 305 310 315 320		
Lys Ile Ile Lys Arg Leu Leu Glu Thr Pro Asn Ala Arg Ala Val Ile 325 330 335		
Met Phe Ala Asn Glu Asp Asp Ile Arg Arg Ile Leu Glu Ala Ala Lys 340 345 350		
Lys Leu Asn Gln Ser Gly His Phe Leu Trp Ile Gly Ser Asp Ser Trp 355 360 365		
Gly Ser Lys Ile Ala Pro Val Tyr Gln Gln Glu Glu Ile Ala Glu Gly 370 375 380		
Ala Val Thr Ile Leu Pro Lys Arg Ala Ser Ile Asp Gly Phe Asp Arg 385 390 395 400		
Tyr Phe Arg Ser Arg Thr Leu Ala Asn Asn Arg Arg Asn Val Trp Phe 405 410 415		
Ala Glu Phe Trp Glu Glu Asn Phe Gly Cys Lys Leu Gly Ser His Gly 420 425 430		
Lys Arg Asn Ser His Ile Lys Lys Cys Thr Gly Leu Glu Arg Ile Ala 435 440 445		
Arg Asp Ser Ser Tyr Glu Gln Glu Gly Lys Val Gln Phe Val Ile Asp 450 455 460		
Ala Val Tyr Ser Met Ala Tyr Ala Leu His Asn Met His Lys Asp Leu 465 470 475 480		
Cys Pro Gly Tyr Ile Gly Leu Cys Pro Arg Met Ser Thr Ile Asp Gly 485 490 495		
Lys Glu Leu Leu Gly Tyr Ile Arg Ala Val Asn Phe Asn Gly Cys Arg 500 505 510		
Arg Gly Ile Gln Met Ser Leu Pro Trp Pro Thr Leu Phe Thr Pro Ser 515 520 525		

Phe Ser Ser Ser Trp Ala Val Leu Ala Leu Leu Ser Leu Leu Met Lys
 530 535 540

Thr Glu Met Leu Leu Asp Val Met Ile Ser Ser Ser Ile Lys
 545 550 555

<210> 109
 <211> 501
 <212> PRT
 <213> Homo sapien

<400> 109

Met Val Cys Glu Gly Lys Arg Ser Ala Ser Cys Pro Cys Phe Phe Leu
 1 5 10 15

Leu Thr Ala Lys Phe Tyr Trp Ile Leu Thr Met Met Gln Arg Thr His
 20 25 30

Ser Gln Glu Tyr Ala His Ser Ile Arg Val Asp Gly Asp Ile Ile Leu
 35 40 45

Gly Gly Leu Phe Pro Val His Ala Lys Gly Glu Arg Gly Val Pro Cys
 50 55 60

Gly Glu Leu Lys Lys Glu Lys Gly Ile His Arg Leu Glu Ala Met Leu
 65 70 75 80

Tyr Ala Ile Asp Gln Ile Asn Lys Asp Pro Asp Leu Leu Ser Asn Ile
 85 90 95

Thr Leu Gly Val Arg Ile Leu Asp Thr Cys Ser Arg Asp Thr Tyr Ala
 100 105 110

Leu Glu Gln Ser Leu Thr Phe Val Gln Ala Leu Ile Glu Lys Asp Ala
 115 120 125

Ser Asp Val Lys Cys Ala Asn Gly Asp Pro Pro Ile Phe Thr Lys Pro
 130 135 140

Asp Lys Ile Ser Gly Val Ile Gly Ala Ala Ser Ser Val Ser Ile
 145 150 155 160

Met Val Ala Asn Ile Leu Arg Leu Phe Lys Ile Pro Gln Ile Ser Tyr
 165 170 175

Ala Ser Thr Ala Pro Glu Leu Ser Asp Asn Thr Arg Tyr Asp Phe Phe
 180 185 190

Ser Arg Val Val Pro Pro Asp Ser Tyr Gln Ala Gln Ala Met Val Asp
 195 200 205

Ile Val Thr Ala Leu Gly Trp Asn Tyr Val Ser Thr Leu Ala Ser Glu
 210 215 220

Gly Asn Tyr Gly Glu Ser Gly Val Glu Ala Phe Thr Gln Ile Ser Arg
 225 230 235 240

Glu Ile Gly Gly Val Cys Ile Ala Gln Ser Gln Lys Ile Pro Arg Glu
 245 250 255

Pro Arg Pro Gly Glu Phe Glu Lys Ile Ile Lys Arg Leu Leu Glu Thr
 260 265 270

Pro Asn Ala Arg Ala Val Ile Met Phe Ala Asn Glu Asp Asp Ile Arg
 275 280 285

Arg Ile Leu Glu Ala Ala Lys Lys Leu Asn Gln Ser Gly His Phe Leu
 290 295 300

Trp Ile Gly Ser Asp Ser Trp Gly Ser Lys Ile Ala Pro Val Tyr Gln
 305 310 315 320

Gln Glu Glu Ile Ala Glu Gly Ala Val Thr Ile Leu Pro Lys Arg Ala
 325 330 335

Ser Ile Asp Gly Phe Asp Arg Tyr Phe Arg Ser Arg Thr Leu Ala Asn
 340 345 350

Asn Arg Arg Asn Val Trp Phe Ala Glu Phe Trp Glu Glu Asn Phe Gly
 355 360 365

Cys Lys Leu Gly Ser His Gly Lys Arg Asn Ser His Ile Lys Lys Cys
 370 375 380

Thr Gly Leu Glu Arg Ile Ala Arg Asp Ser Ser Tyr Glu Gln Glu Gly
 385 390 395 400

Lys Val Gln Phe Val Ile Asp Ala Val Tyr Ser Met Ala Tyr Ala Leu
 405 410 415

His Asn Met His Lys Asp Leu Cys Pro Gly Tyr Ile Gly Leu Cys Pro

420 425 430

Arg Met Ser Thr Ile Asp Gly Lys Glu Leu Leu Gly Tyr Ile Arg Ala
435 440 445

Val Asn Phe Asn Gly Cys Arg Arg Gly Ile Gln Met Ser Leu Pro Trp
450 455 460

Pro Thr Leu Phe Thr Pro Ser Phe Ser Ser Ser Trp Ala Val Leu Ala
465 470 475 480

Leu Leu Ser Leu Leu Met Lys Thr Glu Met Leu Leu Asp Val Met Ile
485 490 495

Ser Ser Ser Ile Lys
500

<210> 110
<211> 338
<212> PRT
<213> Homo sapien

<400> 110

Trp Lys Phe Thr Val Thr Phe Lys Ser Arg Lys Leu Ala Asn Ala His
1 5 10 15

Arg Ala Phe Ser Pro Trp Ala Leu Met Val Ala Ser Arg Arg Cys Ser
20 25 30

Leu Arg Trp Cys Pro Phe Cys Cys Val Ala Arg Ile Asn Phe Gly Ser
35 40 45

Trp Ile Ala Ile Pro Pro Val Glu Lys Met Val Cys Glu Gly Lys Arg
50 55 60

Ser Ala Ser Cys Pro Cys Phe Phe Leu Leu Thr Ala Lys Phe Tyr Trp
65 70 75 80

Ile Leu Thr Met Met Gln Arg Thr His Ser Gln Glu Tyr Ala His Ser
85 90 95

Ile Arg Val Asp Gly Asp Ile Ile Leu Gly Gly Leu Phe Pro Val His
100 105 110

Ala Lys Gly Glu Arg Gly Val Pro Cys Gly Glu Leu Lys Lys Glu Lys
115 120 125

Gly Ile His Arg Leu Glu Ala Met Leu Tyr Ala Ile Asp Gln Ile Asn
 130 135 140

Lys Asp Pro Asp Leu Leu Ser Asn Ile Thr Leu Gly Val Arg Ile Leu
 145 150 155 160

Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Thr Phe
 165 170 175

Val Gln Ala Leu Ile Glu Lys Asp Ala Ser Asp Val Lys Cys Ala Asn
 180 185 190

Gly Asp Pro Pro Ile Phe Thr Lys Pro Asp Lys Ile Ser Gly Val Ile
 195 200 205

Gly Ala Ala Ala Ser Ser Val Ser Ile Met Val Ala Asn Ile Leu Arg
 210 215 220

Leu Phe Lys Ile Pro Gln Ile Ser Tyr Ala Ser Thr Ala Pro Glu Leu
 225 230 235 240

Ser Asp Asn Thr Arg Tyr Asp Phe Phe Ser Arg Val Val Pro Pro Asp
 245 250 255

Ser Tyr Gln Ala Gln Ala Met Val Asp Ile Val Thr Ala Leu Gly Trp
 260 265 270

Asn Tyr Val Ser Thr Leu Ala Ser Glu Gly Asn Tyr Gly Glu Ser Gly
 275 280 285

Val Glu Ala Phe Thr Gln Ile Ser Arg Glu Ile Gly Tyr Pro Ser Leu
 290 295 300

Phe Gly Ile Gln Gly Cys Leu His Glu Cys Phe Ala Ile Leu Cys Gln
 305 310 315 320

Val Val Tyr Gln Phe Leu Leu Leu Met Gln Leu Ser Asp Ala Gln Thr
 325 330 335

Val Tyr

<210> 111
 <211> 281
 <212> PRT
 <213> Homo sapien

<400> 111

Met Val Cys Glu Gly Lys Arg Ser Ala Ser Cys Pro Cys Phe Phe Leu
 1 5 10 15

Leu Thr Ala Lys Phe Tyr Trp Ile Leu Thr Met Met Gln Arg Thr His
 20 25 30

Ser Gln Glu Tyr Ala His Ser Ile Arg Val Asp Gly Asp Ile Ile Leu
 35 40 45

Gly Gly Leu Phe Pro Val His Ala Lys Gly Glu Arg Gly Val Pro Cys
 50 55 60

Gly Glu Leu Lys Lys Glu Lys Gly Ile His Arg Leu Glu Ala Met Leu
 65 70 75 80

Tyr Ala Ile Asp Gln Ile Asn Lys Asp Pro Asp Leu Leu Ser Asn Ile
 85 90 95

Thr Leu Gly Val Arg Ile Leu Asp Thr Cys Ser Arg Asp Thr Tyr Ala
 100 105 110

Leu Glu Gln Ser Leu Thr Phe Val Gln Ala Leu Ile Glu Lys Asp Ala
 115 120 125

Ser Asp Val Lys Cys Ala Asn Gly Asp Pro Pro Ile Phe Thr Lys Pro
 130 135 140

Asp Lys Ile Ser Gly Val Ile Gly Ala Ala Ala Ser Ser Val Ser Ile
 145 150 155 160

Met Val Ala Asn Ile Leu Arg Leu Phe Lys Ile Pro Gln Ile Ser Tyr
 165 170 175

Ala Ser Thr Ala Pro Glu Leu Ser Asp Asn Thr Arg Tyr Asp Phe Phe
 180 185 190

Ser Arg Val Val Pro Pro Asp Ser Tyr Gln Ala Gln Ala Met Val Asp
 195 200 205

Ile Val Thr Ala Leu Gly Trp Asn Tyr Val Ser Thr Leu Ala Ser Glu
 210 215 220

Gly Asn Tyr Gly Glu Ser Gly Val Glu Ala Phe Thr Gln Ile Ser Arg
 225 230 235 240

Glu Ile Gly Tyr Pro Ser Leu Phe Gly Ile Gln Gly Cys Leu His Glu
245 250 255

Cys Phe Ala Ile Leu Cys Gln Val Val Tyr Gln Phe Leu Leu Leu Met
260 265 270

Gln Leu Ser Asp Ala Gln Thr Val Tyr
275 280

<210> 112
<211> 433
<212> PRT
<213> Homo sapien

<400> 112

Met Val Val Phe Leu Ser Gly Asp Asn Leu Ser Ser Pro Ser His Ser
1 5 10 15

Gly Ile Ile Trp Gln Cys Leu Glu Thr Phe Trp Val Leu Thr Asn Arg
20 25 30

Arg Arg Met Pro Leu Ala Ser Ser Arg Ser Ala Met Leu Leu Ser Ile
35 40 45

Leu Gln Cys Pro Gly Gln Pro His Lys Asp Ser Ser Ser Leu Asn Val
50 55 60

Asn Ser Ala Glu Val Glu Glu Pro Tyr Phe Thr Gly Thr Arg Gln Glu
65 70 75 80

Glu Ser Val Cys Pro Arg Thr Leu Val Ile Ile Thr Cys Pro Leu Gln
85 90 95

Tyr Ser Thr Thr Gln Arg Gln Cys Phe Leu Gly Asn Gly Phe Phe Ser
100 105 110

Leu Gln Val Leu His Phe Glu Asn Val Lys Asp Val Pro Phe Gly Phe
115 120 125

Gln Thr Val Thr Ser Asp Val Asn Lys Leu Ser Ser Phe Tyr Ser Leu
130 135 140

Lys Leu Ile Lys Arg Leu Tyr Val Asp Lys Ser Leu Asn Leu Ser Thr
145 150 155 160

Glu Phe Ile Ser Ser Thr Lys Arg Pro Tyr Ala Lys Glu Leu Glu Thr
 165 170 175

Val Asp Phe Lys Asp Lys Leu Glu Glu Thr Lys Gly Gln Ile Asn Asn
 180 185 190

Ser Ile Lys Asp Leu Thr Asp Gly His Phe Glu Asn Ile Leu Ala Asp
 195 200 205

Asn Ser Val Asn Asp Gln Thr Lys Ile Leu Val Val Asn Ala Ala Tyr
 210 215 220

Phe Val Gly Lys Trp Met Lys Lys Phe Pro Glu Ser Glu Thr Lys Glu
 225 230 235 240

Cys Pro Phe Arg Val Asn Lys Thr Asp Thr Lys Pro Val Gln Met Met
 245 250 255

Asn Met Glu Ala Thr Phe Cys Met Gly Asn Ile Asp Ser Ile Asn Cys
 260 265 270

Lys Ile Ile Glu Leu Pro Phe Gln Asn Lys His Leu Ser Met Phe Ile
 275 280 285

Leu Leu Pro Lys Asp Val Glu Asp Glu Ser Thr Gly Leu Glu Lys Ile
 290 295 300

Glu Lys Gln Leu Asn Ser Glu Ser Leu Ser Gln Trp Thr Asn Pro Ser
 305 310 315 320

Thr Met Ala Asn Ala Lys Val Lys Leu Ser Ile Pro Lys Phe Lys Val
 325 330 335

Glu Lys Met Ile Asp Pro Lys Ala Cys Leu Glu Asn Leu Gly Leu Lys
 340 345 350

His Ile Phe Ser Glu Asp Thr Ser Asp Phe Ser Gly Met Ser Glu Thr
 355 360 365

Lys Gly Val Ala Leu Ser Asn Val Ile His Lys Val Cys Leu Glu Ile
 370 375 380

Thr Glu Asp Gly Gly Asp Ser Ile Glu Val Pro Gly Ala Arg Ile Leu
 385 390 395 400

Gln His Lys Asp Glu Leu Asn Ala Asp His Pro Phe Ile Tyr Ile Ile

405

410

415

Arg His Asn Lys Thr Arg Asn Ile Ile Phe Phe Gly Lys Phe Cys Ser
 420 425 430

Pro

<210> 113
 <211> 705
 <212> PRT
 <213> Homo sapien

<400> 113

Met Glu Arg Met Trp Thr Ser Glu Glu Phe Ser Phe Lys Lys Asn Ile
 1 5 10 15

Met Lys Tyr Ile Leu Ile Thr Gln Gly Leu Leu Leu Val Glu Val Tyr
 20 25 30

Asn Leu Asp Thr Ser Thr Phe Cys Phe Cys Cys Ser Thr Val His Lys
 35 40 45

Thr Phe Ser Asn Leu Gln Gly Lys Ile Val Glu Val Val Glu Val Lys
 50 55 60

Leu Lys Phe Lys Ile Asp Ser Val Asn Thr Ile Gly Lys Glu Ala Glu
 65 70 75 80

Leu Arg Ile Phe Trp Leu Phe Met Cys Ser Val Leu Leu Ser Ser His
 85 90 95

Arg Ser Cys Val Val Thr Gln Asp Ser Gly Ser Thr Lys Pro Glu Leu
 100 105 110

Thr Gly Trp Ile Asp Leu Gln Pro Ile Phe Phe His Tyr Thr Ala Ala
 115 120 125

Phe Leu Phe Leu Lys Lys Gln Lys Ser Met Glu Gln Leu Leu Gln Lys
 130 135 140

Glu Ala Pro Leu Phe Asn Trp Leu Thr Glu Ser Met Asn His Cys Arg
 145 150 155 160

Phe Ala Cys Pro Pro Val Cys Phe Ser His Arg Phe Tyr Leu Ser Glu
 165 170 175

Trp Leu Leu His Leu Asn Thr Val Ala Met Val Ser Glu Gln Leu Lys
 180 185 190

Thr Ser Phe Leu His Leu His Ser Lys Gly Phe Ile Phe Ser Arg Asn
 195 200 205

Lys Val Val Leu Gly Cys Phe Asn Ser Val Asp His Leu Glu Thr Arg
 210 215 220

Glu Gln Gly Pro Trp Ile Thr Met Ser Thr Leu Gln Val Phe Gly Asn
 225 230 235 240

Ala Gly Lys Gly Leu His Ser Ser Asn Leu Leu Thr Ser Phe Leu Ser
 245 250 255

Val Arg Pro Met Leu Ala Cys Asn Tyr Ile Phe Leu Asn Leu Lys Thr
 260 265 270

Lys Glu Ile Ser Asp Ile Phe Ser Val Ser Phe Phe Ser Phe His Ser
 275 280 285

Ser Leu Lys Ser His Tyr Cys Ile Thr Phe Gln Ile Met Thr Trp Ile
 290 295 300

Glu Gly Ser Leu Phe Cys Gln Gly Leu Cys Glu Val Asn Ile Arg Ile
 305 310 315 320

Ser Thr Thr Thr Lys Leu Lys Asn Glu Ala Ala Leu Thr Glu Met Leu
 325 330 335

Ala Lys Thr Asn Ser Leu Asp Cys Phe Cys His His Leu Leu Thr Trp
 340 345 350

Asn Ser Phe His Ile Tyr Phe Ser Tyr Glu Glu Ile Gln Cys Gln Ser
 355 360 365

Asp His Val Thr Ser Lys Gln Asn Phe Ile Glu Ala Tyr Pro Cys Leu
 370 375 380

Asn Tyr Ser Lys Ile Lys Tyr Asn Lys Val Asn Tyr Phe Ala Leu Cys
 385 390 395 400

Ser Ser Ile Val Leu Ser Tyr Ile Tyr Ile Leu Ile Cys Ile Leu Leu
 405 410 415

Ser Lys Val Ser Glu Thr Thr Cys Trp Arg Ala Val Ala Phe Arg Gln
 420 425 430

His Gln His His Leu Lys Ala Leu Leu Asn Thr His Tyr Trp Lys Arg
 435 440 445

Gly Glu Asn Thr Gly Ile Met Pro Val Ile Pro Val Leu Trp Glu Thr
 450 455 460

Glu Ala Gly Gly Ser Arg Gly Ala Gln Glu Phe Lys Ile Arg Leu Gly
 465 470 475 480

Asn Thr Ala Arg Pro Leu Ser Leu Gln Lys Gln Lys Gln Lys Thr Asn
 485 490 495

Arg His Gly Ser Ala Tyr Leu Trp Ser Glu Leu Leu Gly Ser Leu Arg
 500 505 510

Gln Glu Asp His Leu Asn Pro Gly Val Arg Gly Cys Ser Glu Leu Leu
 515 520 525

Leu Gly Gln Leu Gln Ser Ser Leu Gly Ser Lys Val Arg Pro Cys Leu
 530 535 540

Leu Lys Lys Gln Asn Gln Lys Leu Asp Cys Trp Gly Pro Pro Arg Val
 545 550 555 560

Ser Asp Ser Val Gly Leu Ala Val Gly Met Val Gly Leu Val Ile Cys
 565 570 575

Leu Ser Asn Lys Arg Pro Gly Asn Ala Pro Ala Ala Gly Pro Gly Pro
 580 585 590

His Phe Ala Asp Tyr Tyr Ser Glu Lys Ser Thr Asn Ser Asp Val Gly
 595 600 605

Phe Leu Leu Phe Leu Ile Ser Glu Phe Ile Trp Gly Arg Leu Phe Asn
 610 615 620

Leu Val Asp Pro His Leu Leu Ser Cys Glu Val Glu Val Asn Ala Thr
 625 630 635 640

Cys Leu Glu Thr Val Arg Met Arg Asn Ser Glu Leu Lys Tyr Gln Ala
 645 650 655

Gln Arg Ala Trp Met Leu Glu Glu Met Leu Thr Pro Met Val Arg Pro

Ser Leu Thr Leu Leu Ser Tyr Lys Val Arg Ser Glu Ile Gln Tyr Leu
675 680 685

Leu Arg Phe Leu Ser Gly Val Lys Cys Cys Asp Ser Lys Ser Leu Ile
690 695 700

Leu
705

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<210> 114
<211> 226
<212> PRT
<213> Homo sapien
<400> 114
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Leu Ile Ile Asn Asp Cys Tyr Ser His Ser Ile Gly Gly Val Val Leu
1 5 10 15

Val Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr Val Gly
20 25 30

Ser Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr Ile Val
35 40 45

Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
50 55 60

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
65 70 75 80

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
85 90 95

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
100 105 110

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
115 120 125

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
130 135 140

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
145 150 155 160

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His
165 170 175

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
180 185 190

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
195 200 205

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
210 215 220

Ala Ser
225

<210> 115
<211> 570
<212> PRT
<213> Homo sapien

<400> 115

Met Val Pro Pro Arg Arg His Arg Gly Ala Gly Arg Pro Gly Val Leu
1 5 10 15

Ser Ser Ser Pro Pro Phe Arg Leu Arg Ser Ala Lys Phe Ser Gly Ile
20 25 30

Ala Leu Glu Asp Leu Arg Arg Ala Leu Lys Thr Arg Leu Gln Met Val
35 40 45

Cys Val Phe Val Met Asn Arg Met Asn Ser Gln Asn Ser Gly Phe Thr
50 55 60

Gln Arg Arg Arg Met Ala Leu Gly Ile Val Ile Leu Leu Leu Val Asp
65 70 75 80

Val Ile Trp Val Ala Ser Ser Glu Leu Thr Ser Tyr Val Phe Thr Gln
85 90 95

Tyr Asn Lys Pro Phe Phe Ser Thr Phe Ala Lys Thr Ser Met Phe Val
100 105 110

Leu Tyr Leu Leu Gly Phe Ile Ile Trp Lys Pro Trp Arg Gln Gln Cys
115 120 125

Thr Arg Gly Leu Arg Gly Lys His Ala Ala Phe Phe Ala Asp Ala Glu

130		135		140
Gly Tyr Phe Ala Ala Cys Thr Thr Asp Thr Thr Met Asn Ser Ser Leu				
145		150		155 160
Ser Glu Pro Leu Tyr Val Pro Val Lys Phe His Asp Leu Pro Ser Glu				
	165		170	175
Lys Pro Glu Ser Thr Asn Ile Asp Thr Glu Lys Thr Pro Lys Lys Ser				
	180		185	190
Arg Val Arg Phe Ser Asn Ile Met Glu Ile Arg Gln Leu Pro Ser Ser				
	195		200	205
His Ala Leu Glu Ala Lys Leu Ser Arg Met Ser Tyr Pro Val Lys Glu				
	210		215	220
Gln Glu Ser Ile Leu Lys Thr Val Gly Lys Leu Thr Ala Thr Gln Val				
	225		230	235 240
Ala Lys Ile Ser Phe Phe Phe Cys Phe Val Trp Phe Leu Ala Asn Leu				
	245		250	255
Ser Tyr Gln Glu Ala Leu Ser Asp Thr Gln Val Ala Ile Val Asn Ile				
	260		265	270
Leu Ser Ser Thr Ser Gly Leu Phe Thr Leu Ile Leu Ala Ala Val Phe				
	275		280	285
Pro Ser Asn Ser Gly Asp Arg Phe Thr Leu Ser Lys Leu Leu Ala Val				
	290		295	300
Ile Leu Ser Ile Gly Gly Val Val Leu Val Asn Leu Ala Gly Ser Glu				
	305		310	315 320
Lys Pro Ala Gly Arg Asp Thr Val Gly Ser Ile Trp Ser Leu Ala Gly				
	325		330	335
Ala Met Leu Tyr Ala Val Tyr Ile Val Met Ile Lys Arg Lys Val Asp				
	340		345	350
Arg Glu Asp Lys Leu Asp Ile Pro Met Phe Phe Gly Phe Val Gly Leu				
	355		360	365
Phe Asn Leu Leu Leu Leu Trp Pro Gly Phe Phe Leu Leu His Tyr Thr				
	370		375	380

Gly Phe Glu Asp Phe Glu Phe Pro Asn Lys Val Val Leu Met Cys Ile
385 390 395 400

Ile Ile Asn Gly Leu Ile Gly Thr Val Leu Ser Glu Phe Leu Trp Leu
405 410 415

Trp Gly Cys Phe Leu Thr Ser Ser Leu Ile Gly Thr Leu Ala Leu Ser
420 425 430

Leu Thr Ile Pro Leu Ser Ile Ile Ala Asp Met Cys Met Gln Lys Val
435 440 445

Gln Phe Ser Trp Leu Phe Phe Ala Gly Ala Ile Pro Val Phe Phe Ser
450 455 460

Phe Phe Ile Val Thr Leu Leu Cys His Tyr Asn Asn Trp Asp Pro Val
465 470 475 480

Met Val Gly Ile Arg Arg Ile Phe Ala Phe Ile Cys Arg Lys His Arg
485 490 495

Ile Gln Arg Trp Asn Leu Ala Leu Ser Pro Lys Leu Glu Cys Ser Gly
500 505 510

Glu Ile Ser Gly His Cys Asn Leu Tyr Leu Leu Gly Ser Ser Asp Ser
515 520 525

Pro Ala Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Ala Arg His His
530 535 540

Thr Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His Val
545 550 555 560

Gly Gln Asp Gly Leu Asp Leu Leu Asn Ser
565 570

<210> 116
<211> 135
<212> PRT
<213> Homo sapien

<400> 116

Met Asp Gly Arg Leu Asp Gly Trp Val Asp Gly Arg Gly Trp Pro Trp
1 5 10 15

Met Arg Ser Ala Leu His Thr Gln Thr Arg Trp Glu Arg Phe Val Glu
20 25 30

His Asp Ser Leu Gln Gln Glu Tyr Met Cys Ala Tyr Leu Cys Gly Gln
35 40 45

Lys Tyr Leu His Leu Gly Phe Gly Ala Ile Gln Glu Glu Met Ser Gln
50 55 60

Lys Gln Leu Asn Gln Gly Leu Ser Thr Leu Trp Ile Leu Asn Leu Lys
65 70 75 80

Met Gly Ala Gly Leu Cys Leu Lys Ala Leu Leu Ser His Leu Leu Gly
85 90 95

Pro Trp Phe Asn Lys Ala Leu Ser Lys Leu Arg Lys Thr Thr Thr Thr
100 105 110

Thr Gln Asn Lys Ser Ser Phe Phe Ser Ser Phe Leu Gly Lys Lys Ala
115 120 125

Leu Phe Phe Arg Glu Arg Val
130 135

<210> 117
<211> 82
<212> PRT
<213> Homo sapien

<400> 117

Met Leu Leu Glu Arg Arg Ser Val Met Asp Val Val Ala Ala Glu Val
1 5 10 15

Trp Gly Leu Thr Ala Gln Asn Leu Leu Leu Ser Cys Cys Gly Trp Met
20 25 30

Glu Gly Trp Met Asp Gly Trp Met Ala Val Asp Gly Arg Gly Cys Ala
35 40 45

Val Pro Cys Ile Pro Lys Pro Gly Gly Ser Val Leu Leu Ser Met Thr
50 55 60

Ala Cys Ser Arg Asn Ile Cys Val Pro Ile Cys Val Asp Lys Asn Ile
65 70 75 80

Tyr Thr

<210> 118
 <211> 146
 <212> PRT
 <213> Homo sapien

<400> 118

Asn His Tyr Arg Arg Ile Gly Ala Leu Asp Ala Ala Arg Ala Ala Gln
 1 5 10 15

Cys Asp Gly Cys Gly Arg Gly Arg Gly Leu Gly Pro Asp Cys Ser Glu
 20 25 30

Leu Ala Ala Val Leu Leu Arg Met Asp Gly Arg Leu Asp Gly Trp Val
 35 40 45

Asp Gly Arg Gly Trp Pro Trp Met Arg Ser Ala Leu His Thr Gln Thr
 50 55 60

Arg Trp Glu Arg Phe Val Glu His Asp Ser Leu Gln Gln Glu Tyr Met
 65 70 75 80

Cys Ala Tyr Leu Cys Gly Gln Lys Tyr Leu His Leu Gly Phe Gly Ala
 85 90 95

Ile Gln Glu Glu Met Ser Gln Lys Gln Leu Asn Gln Gly Leu Ser Thr
 100 105 110

Leu Trp Ile Leu Asn Leu Lys Met Gly Ala Gly Leu Cys Leu Lys Ala
 115 120 125

Leu Leu Ser His Leu Leu Gly Pro Trp Phe Asn Lys Ala Leu Ser Lys
 130 135 140

Leu Arg
 145

<210> 119
 <211> 614
 <212> PRT
 <213> Homo sapien

<400> 119

Met Asp Ser Pro Ser Pro Met Asp Pro His Met Ala Glu Gln Thr Phe
 1 5 10 15

Glu Gln Ala Ile Gln Ala Ala Ser Arg Ile Ile Arg Asn Glu Gln Phe

20	25	30
Ala Ile Arg Arg Phe Gln Ser Met Pro Val Arg Leu Leu Gly His Ser 35 40 45		
Pro Val Leu Arg Asn Ile Thr Asn Ser Gln Ala Pro Asp Gly Arg Arg 50 55 60		
Lys Ser Glu Ala Gly Ser Gly Ala Ala Ser Ser Ser Gly Glu Asp Lys 65 70 75 80		
Glu Asn Val Arg Phe Trp Lys Ala Gly Val Gly Ala Leu Arg Glu Glu 85 90 95		
Glu Gly Ala Cys Trp Gly Gly Ser Leu Ala Cys Glu Asp Pro Pro Leu 100 105 110		
Pro Ser Trp Leu Gln Asp Gly Phe Val Phe Lys Met Pro Trp Lys Pro 115 120 125		
Thr His Pro Ser Ser Thr His Ala Leu Ala Glu Trp Ala Ser Arg Arg 130 135 140		
Glu Ala Phe Ala Gln Arg Pro Ser Ser Ala Pro Asp Leu Met Cys Leu 145 150 155 160		
Ser Pro Asp Arg Lys Met Glu Val Glu Glu Leu Ser Pro Leu Ala Leu 165 170 175		
Gly Arg Phe Ser Leu Thr Pro Ala Glu Gly Asp Thr Glu Glu Asp Asp 180 185 190		
Gly Phe Val Asp Ile Leu Glu Ser Asp Leu Lys Val Asn Ser Leu Val 195 200 205		
Pro Pro Gly Pro Tyr Leu Pro Ile Pro Gly Phe Ala Gln Lys Lys Arg 210 215 220		
Ala Leu Ser Pro Val Trp Gln Asp His Asp Val Ile Pro Val Ser Glu 225 230 235 240		
Glu Glu Ser Glu Val Thr Glu Ser Gln Pro Asn Leu Trp Pro Met Arg 245 250 255		
Glu Glu Gln Val Ala Gly Ala Thr Val Glu Gly Gly Leu Gly Gly Arg 260 265 270		

Gly Ala Ser His Pro Asn Leu Glu Phe Ala Arg Glu Thr Gly Lys Ala
 275 280 285

Val Leu Glu Asp Ser Gly Thr Gly Gly Val Trp Pro Met Pro Val Gly
 290 295 300

Cys Asp Pro Val Leu Ala Asn Leu Ala Ser Asp Asp Asp Ala Val Pro
 305 310 315 320

Pro Gly Met Glu Ser Leu Ile Ser Ala Pro Leu Val Lys Thr Leu Glu
 325 330 335

Lys Glu Glu Glu Lys Asp Leu Val Met Tyr Ser Lys Cys Gln Arg Leu
 340 345 350

Phe Arg Ser Pro Ser Met Pro Cys Ser Val Ile Arg Pro Ile Leu Lys
 355 360 365

Arg Leu Glu Arg Pro Gln Asp Arg Asp Thr Pro Val Gln Asn Lys Arg
 370 375 380

Arg Arg Ser Val Thr Pro Pro Glu Glu Gln Gln Glu Ala Glu Glu Pro
 385 390 395 400

Lys Ala Arg Val Leu Arg Ser Lys Ser Leu Cys His Asp Glu Ile Glu
 405 410 415

Asn Leu Leu Asp Ser Asp His Arg Glu Leu Ile Gly Asp Tyr Ser Lys
 420 425 430

Ala Phe Leu Leu Gln Thr Val Asp Gly Lys His Gln Asp Leu Lys Tyr
 435 440 445

Ile Ser Pro Glu Thr Met Val Ala Leu Leu Thr Gly Lys Phe Ser Asn
 450 455 460

Ile Val Asp Lys Phe Val Ile Val Asp Cys Arg Tyr Pro Tyr Glu Tyr
 465 470 475 480

Glu Gly Gly His Ile Lys Thr Ala Val Asn Leu Pro Leu Glu Arg Asp
 485 490 495

Ala Glu Ser Phe Leu Leu Lys Ser Pro Ile Ala Pro Cys Ser Leu Asp
 500 505 510

Lys Arg Val Ile Leu Ile Phe His Cys Glu Phe Ser Ser Glu Arg Gly
 515 520 525

Pro Arg Met Cys Arg Phe Ile Arg Glu Arg Asp Arg Ala Val Asn Asp
 530 535 540

Tyr Pro Ser Leu Tyr Tyr Pro Glu Met Tyr Ile Leu Lys Gly Gly Tyr
 545 550 555 560

Lys Glu Phe Phe Pro Gln His Pro Asn Phe Cys Glu Pro Gln Asp Tyr
 565 570 575

Arg Pro Met Asn His Glu Ala Phe Lys Asp Glu Leu Lys Thr Phe Arg
 580 585 590

Leu Lys Thr Arg Ser Trp Ala Gly Glu Arg Ser Arg Arg Glu Leu Cys
 595 600 605

Ser Arg Leu Gln Asp Gln
 610

<210> 120
 <211> 413
 <212> PRT
 <213> Homo sapien

<400> 120

Leu Lys Gly Lys Gln Pro Cys Pro Thr Arg Pro Leu Pro Ser Tyr Pro
 1 5 10 15

Trp Val Arg Pro Lys Glu Glu Ser Ser Glu Pro Leu Trp Gln Asp His
 20 25 30

Asp Val Ile Pro Val Ser Glu Glu Glu Ser Glu Val Thr Glu Ser Gln
 35 40 45

Pro Asn Leu Trp Pro Met Arg Glu Glu Gln Val Ala Gly Ala Thr Val
 50 55 60

Glu Gly Gly Leu Gly Gly Arg Gly Ala Ser His Pro Asn Leu Glu Phe
 65 70 75 80

Ala Arg Glu Thr Gly Lys Ala Val Leu Glu Asp Ser Gly Thr Gly Gly
 85 90 95

Val Trp Pro Met Pro Val Gly Cys Asp Pro Val Leu Ala Asn Leu Ala

174/383

100	105	110
Ser Asp Asp Asp Ala Val Pro Pro Gly Met Glu Ser Leu Ile Ser Ala 115 120 125		
Pro Leu Val Lys Thr Leu Glu Lys Glu Glu Glu Lys Asp Leu Val Met 130 135 140		
Tyr Ser Lys Cys Gln Arg Leu Phe Arg Ser Pro Ser Met Pro Cys Ser 145 150 155 160		
Val Ile Arg Pro Ile Leu Lys Arg Leu Glu Arg Pro Gln Asp Arg Asp 165 170 175		
Thr Pro Val Gln Asn Lys Arg Arg Arg Ser Val Thr Pro Pro Glu Glu 180 185 190		
Gln Gln Glu Ala Glu Glu Pro Lys Ala Arg Val Leu Arg Ser Lys Ser 195 200 205		
Leu Cys His Asp Glu Ile Glu Asn Leu Leu Asp Ser Asp His Arg Glu 210 215 220		
Leu Ile Gly Asp Tyr Ser Lys Ala Phe Leu Leu Gln Thr Val Asp Gly 225 230 235 240		
Lys His Gln Asp Leu Lys Tyr Ile Ser Pro Glu Thr Met Val Ala Leu 245 250 255		
Leu Thr Gly Lys Phe Ser Asn Ile Val Asp Lys Phe Val Ile Val Asp 260 265 270		
Cys Arg Tyr Pro Tyr Glu Tyr Glu Gly Gly His Ile Lys Thr Ala Val 275 280 285		
Asn Leu Pro Leu Glu Arg Asp Ala Glu Ser Phe Leu Leu Lys Ser Pro 290 295 300		
Ile Ala Pro Cys Ser Leu Asp Lys Arg Val Ile Leu Ile Phe His Cys 305 310 315 320		
Glu Phe Ser Ser Glu Arg Gly Pro Arg Met Cys Arg Phe Ile Arg Glu 325 330 335		
Arg Asp Arg Ala Val Asn Asp Tyr Pro Ser Leu Tyr Tyr Pro Glu Met 340 345 350		

Tyr Ile Leu Lys Gly Gly Tyr Lys Glu Phe Phe Pro Gln His Pro Asn
 355 360 365

Phe Cys Glu Pro Gln Asp Tyr Arg Pro Met Asn His Glu Ala Phe Lys
 370 375 380

Asp Glu Leu Lys Thr Phe Arg Leu Lys Thr Arg Ser Trp Ala Gly Glu
 385 390 395 400

Arg Ser Arg Arg Glu Leu Cys Ser Arg Leu Gln Asp Gln
 405 410

<210> 121
 <211> 331
 <212> PRT
 <213> Homo sapien

<400> 121

Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys Arg Gly His
 1 5 10 15

Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg Gln Asn Thr
 20 25 30

Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr Pro Pro Lys
 35 40 45

Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro Cys Leu Glu
 50 55 60

Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln Thr Ser Thr
 65 70 75 80

Glu Tyr Phe Leu Glu Ala Cys Ser Arg Glu Glu Arg Asp Ala Trp Ala
 85 90 95

Phe Glu Ile Thr Gly Ala Ile His Ala Gly Gln Pro Gly Lys Val Gln
 100 105 110

Gln Leu His Ser Leu Arg Asn Ser Phe Lys Leu Pro Pro His Ile Ser
 115 120 125

Leu His Arg Ile Val Asp Lys Met His Asp Ser Asn Thr Gly Ile Arg
 130 135 140

Ser Ser Pro Asn Met Glu Gln Gly Ser Thr Tyr Lys Lys Thr Phe Leu
 145 150 155 160

Gly Ser Ser Leu Val Asp Trp Leu Ile Ser Asn Ser Phe Thr Ala Ser
 165 170 175

Arg Leu Glu Ala Val Thr Leu Ala Ser Met Leu Met Glu Glu Asn Phe
 180 185 190

Leu Arg Pro Val Gly Val Arg Ser Met Gly Ala Ile Arg Ser Gly Asp
 195 200 205

Leu Ala Glu Gln Phe Leu Asp Asp Ser Thr Ala Leu Tyr Thr Phe Ala
 210 215 220

Glu Ser Tyr Lys Lys Lys Ile Ser Pro Lys Glu Glu Ile Ser Leu Ser
 225 230 235 240

Thr Val Glu Leu Ser Gly Thr Val Val Lys Gln Gly Tyr Leu Ala Lys
 245 250 255

Gln Gly His Lys Arg Lys Asn Trp Lys Val Arg Arg Phe Val Leu Arg
 260 265 270

Lys Asp Pro Ala Phe Leu His Tyr Tyr Asp Pro Ser Lys Glu Glu Asn
 275 280 285

Arg Pro Val Gly Gly Phe Ser Leu Arg Gly Ser Leu Val Ser Ala Leu
 290 295 300

Glu Asp Asn Gly Val Pro Thr Gly Lys Val Gln Leu Gln Pro Trp Pro
 305 310 315 320

Glu Asp Leu Arg Gly Leu Pro Pro Ala Pro Gln
 325 330

<210> 122

<211> 176

<212> PRT

<213> Homo sapien

<400> 122

Met Ser Ile Met Ser Tyr Asn Gly Gly Ala Val Met Ala Met Lys Gly
 1 5 10 15

Lys Asn Cys Val Ala Ile Ala Ala Asp Arg Arg Phe Gly Ile Gln Ala
 20 25 30

Gln Met Val Thr Thr Asp Phe Gln Lys Ile Phe Pro Met Gly Asp Arg
35 40 45

Leu Tyr Ile Gly Leu Ala Gly Leu Ala Thr Asp Val Gln Thr Val Ala
50 55 60

Gln Arg Leu Lys Phe Arg Leu Asn Leu Tyr Glu Leu Lys Glu Gly Arg
65 70 75 80

Gln Ile Lys Pro Tyr Thr Leu Met Ser Met Val Ala Asn Leu Leu Tyr
85 90 95

Glu Lys Arg Phe Gly Pro Tyr Tyr Thr Glu Pro Val Ile Ala Gly Leu
100 105 110

Asp Pro Lys Thr Phe Lys Pro Phe Ile Cys Ser Leu Asp Leu Ile Gly
115 120 125

Cys Pro Met Val Thr Asp Asp Phe Val Val Ser Gly Thr Cys Ala Glu
130 135 140

Gln Met Tyr Gly Met Cys Glu Ser Leu Trp Glu Pro Asn Met Val Arg
145 150 155 160

Trp Trp His Gly Glu Gly Leu Gly Ser Glu Leu Pro Thr Leu Gly His
165 170 175

<210> 123
<211> 158
<212> PRT
<213> Homo sapien

<400> 123

Met Ser Ile Met Ser Tyr Asn Gly Gly Ala Val Met Ala Met Lys Gly
1 5 10 15

Lys Asn Cys Val Ala Ile Ala Ala Asp Arg Arg Phe Gly Ile Gln Ala
20 25 30

Gln Met Val Thr Thr Asp Phe Gln Lys Ile Phe Pro Met Gly Asp Arg
35 40 45

Leu Tyr Ile Gly Leu Ala Gly Leu Ala Thr Asp Val Gln Thr Val Ala
50 55 60

Gln Arg Leu Lys Phe Arg Leu Asn Leu Tyr Glu Leu Lys Glu Gly Arg
65 70 75 80

Gln Ile Lys Pro Tyr Thr Leu Met Ser Met Val Ala Asn Leu Leu Tyr
85 90 95

Glu Lys Arg Phe Gly Pro Tyr Tyr Thr Glu Pro Val Ile Ala Gly Leu
100 105 110

Asp Pro Lys Thr Phe Lys Pro Phe Ile Cys Ser Leu Asp Leu Ile Gly
115 120 125

Cys Pro Met Val Thr Asp Asp Phe Val Val Ser Gly Thr Cys Ala Glu
130 135 140

Gln Met Tyr Leu Gly Arg Asp His Ala Lys Pro Asn Ser Ser
145 150 155

<210> 124

<211> 246

<212> PRT

<213> Homo sapien

<400> 124

Met Leu Phe Pro Gln Val Pro Pro Pro Arg Pro Gly Leu Ala Asp Pro
1 5 10 15

Pro Leu Pro Phe Pro Ser Ser Asn Leu Asn Lys Pro Tyr Leu Phe Ser
20 25 30

Val Leu Leu Gly Ala Trp Gln Leu Gly Asn Pro Gly Ser Arg Ser Gln
35 40 45

Lys Val Gly Val Ala Trp Val Glu Pro His Pro Val Tyr Ser Trp Lys
50 55 60

Glu Gly Ala Cys Ala Asp Ile Ala Leu Val Arg Leu Glu Arg Ser Ile
65 70 75 80

Gln Phe Ser Glu Arg Val Leu Pro Ile Cys Leu Pro Asp Ala Ser Ile
85 90 95

His Leu Pro Pro Asn Thr His Cys Trp Ile Ser Gly Trp Gly Ser Ile
100 105 110

Gln Asp Gly Val Pro Leu Pro His Pro Gln Thr Leu Gln Lys Leu Lys
115 120 125

Val Pro Ile Ile Asp Ser Glu Val Cys Ser His Leu Tyr Trp Arg Gly
130 135 140

Ala Gly Gln Gly Pro Ile Thr Glu Asp Met Leu Cys Ala Gly Tyr Leu
145 150 155 160

Glu Gly Glu Arg Asp Ala Cys Leu Gly Asp Ser Gly Gly Pro Leu Met
165 170 175

Cys Gln Val Asp Gly Ala Trp Leu Leu Ala Gly Ile Ile Ser Trp Gly
180 185 190

Glu Gly Cys Ala Glu Arg Asn Arg Pro Gly Val Tyr Ile Ser Leu Ser
195 200 205

Ala His Arg Ser Trp Val Glu Lys Ile Val Gln Gly Val Gln Leu Arg
210 215 220

Gly Arg Ala Gln Gly Gly Gly Ala Leu Arg Ala Pro Ser Gln Gly Ser
225 230 235 240

Gly Ala Ala Ala Arg Ser
245

<210> 125
<211> 273
<212> PRT
<213> Homo sapien

<400> 125

Met Arg Leu Trp Leu Gly Arg Asp Ala Glu Gly Thr Glu Leu Ser Arg
1 5 10 15

Arg His Asn Trp Thr Lys Pro Glu Pro Gln Ala Pro Val Ala Trp Glu
20 25 30

Arg Val Ala Pro Ser Asn Leu Pro Gln Gly His Pro Leu Pro Lys Ser
35 40 45

Phe Ser Ser Pro Pro Ser Pro Ser Asn Lys Arg Glu Glu Glu Glu
50 55 60

Glu Phe Asn Phe Glu Val Ile Pro Pro Pro Pro Glu Phe Ser Asn Asp
65 70 75 80

Pro Glu Pro Pro Ala Pro Ala Leu Gln Tyr Leu Gly Arg Gln Ser Ser
85 90 95

Pro Pro Arg Asn Asn Tyr Ser Asp Leu Arg Gln Leu Pro Asn Ala Gly
100 105 110

Pro Gly Ala Pro Pro Ala Leu Gly Phe Ser Arg Phe Pro Ala Gly Ala
115 120 125

Arg Tyr Ala Gly Ala Gly Gly Leu Glu Arg Phe Ser Gly Gly Gly Arg
130 135 140

Ser Leu Ile Lys Lys Arg Leu Tyr Val Gly Glu Pro His Arg Gly Pro
145 150 155 160

Gly Leu Pro His Gly Gly Thr Gly Arg Ser Leu Ser Ser Pro Asn Cys
165 170 175

Phe Gly Pro Gln Pro Gly Gly Pro Glu Met Arg Arg Val Asn Ser Ala
180 185 190

Gly Arg Ala Pro Pro Gly Gly Leu His Ala Pro Arg Leu Ser Leu Glu
195 200 205

Gly Ala Ala Arg Gly Ala Ala Glu Ala Lys His Lys Ala Pro Gly Ser
210 215 220

Ala Asp Tyr Gly Phe Ala Pro Ala Ala Gly Arg Ser Pro Tyr Thr Thr
225 230 235 240

Thr Arg Tyr Gly Ser Pro Ile Asn Thr Phe Thr Val Arg Pro Gly Thr
245 250 255

Arg His Pro Ile Ser Tyr Val Cys Ser Gly Ala His Arg Lys Ala Thr
260 265 270

Ser

<210> 126
<211> 278
<212> PRT
<213> Homo sapien

<400> 126

Ser Ser Cys His Asn Leu Arg Leu Trp Leu Gly Arg Asp Ala Glu Gly
1 5 10 15

Thr Glu Leu Ser Arg Arg His Asn Trp Thr Lys Pro Glu Pro Gln Ala
 20 25 30

Pro Val Ala Trp Glu Arg Val Ala Pro Ser Asn Leu Pro Gln Gly His
 35 40 45

Pro Leu Pro Lys Ser Phe Ser Ser Pro Pro Ser Pro Ser Asn Lys Arg
 50 55 60

Glu Glu Glu Glu Glu Glu Phe Asn Phe Glu Val Ile Pro Pro Pro Pro
 65 70 75 80

Glu Phe Ser Asn Asp Pro Glu Pro Pro Ala Pro Ala Leu Gln Tyr Leu
 85 90 95

Gly Arg Gln Ser Ser Pro Pro Arg Asn Asn Tyr Ser Asp Leu Arg Gln
 100 105 110

Leu Pro Asn Ala Gly Pro Gly Ala Pro Pro Ala Leu Gly Phe Ser Arg
 115 120 125

Phe Pro Ala Gly Ala Arg Tyr Ala Gly Ala Gly Gly Leu Glu Arg Phe
 130 135 140

Ser Gly Gly Gly Arg Ser Leu Ile Lys Lys Arg Leu Tyr Val Gly Glu
 145 150 155 160

Pro His Arg Gly Pro Gly Leu Pro His Gly Gly Thr Gly Arg Ser Leu
 165 170 175

Ser Ser Pro Asn Cys Phe Gly Pro Gln Pro Gly Gly Pro Glu Met Arg
 180 185 190

Arg Val Asn Ser Ala Gly Arg Ala Pro Pro Gly Gly Leu His Ala Pro
 195 200 205

Arg Leu Ser Leu Glu Gly Ala Ala Arg Gly Ala Ala Glu Ala Lys His
 210 215 220

Lys Ala Pro Gly Ser Ala Asp Tyr Gly Phe Ala Pro Ala Ala Gly Arg
 225 230 235 240

Ser Pro Tyr Thr Thr Thr Arg Tyr Gly Ser Pro Ile Asn Thr Phe Thr
 245 250 255

Val Arg Pro Gly Thr Arg His Pro Ile Ser Tyr Val Cys Ser Gly Ala
 260 265 270

His Arg Lys Ala Thr Ser
 275

<210> 127
 <211> 2306
 <212> PRT
 <213> Homo sapien

<400> 127

Met Ala Ala Leu Val Leu Glu Asp Gly Ser Val Leu Arg Gly Gln Pro
 1 5 10 15

Phe Gly Ala Ala Val Ser Thr Ala Gly Glu Val Val Phe Gln Thr Gly
 20 25 30

Met Val Gly Tyr Pro Glu Ala Leu Thr Asp Pro Ser Tyr Lys Ala Gln
 35 40 45

Ile Leu Val Leu Thr Tyr Pro Leu Ile Gly Asn Tyr Gly Ile Pro Pro
 50 55 60

Asp Glu Met Asp Glu Phe Gly Leu Cys Lys Trp Phe Glu Ser Ser Gly
 65 70 75 80

Ile His Val Ala Ala Leu Val Val Gly Glu Cys Cys Pro Thr Pro Ser
 85 90 95

His Trp Ser Ala Thr Arg Thr Leu His Glu Trp Leu Gln Gln His Gly
 100 105 110

Ile Pro Gly Leu Gln Gly Val Asp Thr Arg Glu Leu Thr Lys Lys Leu
 115 120 125

Arg Glu Gln Gly Ser Leu Leu Gly Lys Leu Val Gln Asn Gly Thr Glu
 130 135 140

Pro Ser Ser Leu Pro Phe Leu Asp Pro Asn Ala Arg Pro Leu Val Pro
 145 150 155 160

Glu Val Ser Ile Lys Thr Pro Arg Val Phe Asn Thr Gly Gly Ala Pro
 165 170 175

Arg Ile Leu Ala Leu Asp Cys Gly Leu Lys Tyr Asn Gln Ile Arg Cys

[illegible]

Ile Asn Pro Asn Ile Ala Thr Val Gln Thr Ser Gln Gly Leu Ala Asp
 435 440 445

Lys Val Tyr Phe Leu Pro Ile Thr Pro His Tyr Val Thr Gln Val Ile
 450 455 460

Arg Asn Glu Arg Pro Asp Gly Val Leu Leu Thr Phe Gly Gly Gln Thr
 465 470 475 480

Ala Leu Asn Cys Gly Val Glu Leu Thr Lys Ala Gly Val Leu Ala Arg
 485 490 495

Tyr Gly Val Arg Val Leu Gly Thr Thr Val Glu Thr Ile Glu Leu Thr
 500 505 510

Glu Asp Arg Arg Ala Phe Ala Ala Arg Met Ala Glu Ile Gly Glu His
 515 520 525

Val Ala Pro Ser Glu Ala Gly Asn Ser Leu Glu Gln Ala Gln Ala Ala
 530 535 540

Ala Glu Arg Leu Gly Tyr Pro Val Leu Val Arg Ala Ala Phe Ala Val
 545 550 555 560

Gly Gly Leu Gly Ser Gly Phe Ala Ser Asn Arg Glu Glu Leu Ser Ala
 565 570 575

Leu Val Ala Pro Ala Phe Ala His Thr Ser Gln Val Leu Val Asp Lys
 580 585 590

Ser Leu Lys Gly Trp Lys Glu Ile Glu Tyr Glu Val Val Arg Asp Ala
 595 600 605

Tyr Gly Asn Cys Val Thr Val Cys Asn Met Glu Asn Leu Asp Pro Leu
 610 615 620

Gly Ile His Thr Gly Glu Ser Ile Val Val Ala Pro Ser Gln Thr Leu
 625 630 635 640

Asn Asp Arg Glu Tyr Gln Leu Leu Arg Gln Thr Ala Ile Lys Val Thr
 645 650 655

Gln His Leu Gly Ile Val Gly Glu Cys Asn Val Gln Tyr Ala Leu Asn
 660 665 670

Pro Glu Ser Glu Gln Tyr Tyr Ile Ile Glu Val Asn Ala Arg Leu Ser
 675 680 685

Arg Ser Ser Ala Leu Ala Ser Lys Ala Thr Gly Tyr Pro Leu Ala Tyr
 690 695 700

Val Ala Ala Lys Leu Ala Leu Gly Ile Pro Leu Pro Glu Leu Arg Asn
 705 710 715 720

Ser Val Thr Gly Gly Thr Ala Ala Phe Glu Pro Ser Val Asp Tyr Cys
 725 730 735

Val Val Lys Ile Pro Arg Trp Asp Leu Ser Lys Phe Leu Arg Val Ser
 740 745 750

Thr Lys Ile Gly Ser Cys Met Lys Ser Val Gly Glu Val Met Gly Ile
 755 760 765

Gly Arg Ser Phe Glu Glu Ala Phe Gln Lys Ala Leu Arg Met Val Asp
 770 775 780

Glu Asn Cys Val Gly Phe Asp His Thr Val Lys Pro Val Ser Asp Met
 785 790 795 800

Glu Leu Glu Thr Pro Thr Asp Lys Arg Ile Phe Val Val Ala Ala Ala
 805 810 815

Leu Trp Ala Gly Tyr Ser Val Asp Arg Leu Tyr Glu Leu Thr Arg Ile
 820 825 830

Asp Arg Trp Phe Leu His Arg Met Lys Arg Ile Ile Ala His Ala Gln
 835 840 845

Leu Leu Glu Gln His Arg Gly Gln Pro Leu Pro Pro Asp Leu Leu Gln
 850 855 860

Gln Ala Lys Cys Leu Gly Phe Ser Asp Lys Gln Ile Ala Leu Ala Val
 865 870 875 880

Leu Ser Thr Glu Leu Ala Val Arg Lys Leu Arg Gln Glu Leu Gly Ile
 885 890 895

Cys Pro Ala Val Lys Gln Ile Asp Thr Val Ala Ala Glu Trp Pro Ala
 900 905 910

Gln Thr Asn Tyr Leu Tyr Leu Thr Tyr Trp Gly Thr Thr His Asp Leu
 915 920 925

Thr Phe Arg Thr Pro His Val Leu Val Leu Gly Ser Gly Val Tyr Arg
 930 935 940

Ile Gly Ser Ser Val Glu Phe Asp Trp Cys Ala Val Gly Cys Ile Gln
 945 950 955 960

Gln Leu Arg Lys Met Gly Tyr Lys Thr Ile Met Val Asn Tyr Asn Pro
 965 970 975

Glu Thr Val Ser Thr Asp Tyr Asp Met Cys Asp Arg Leu Tyr Phe Asp
 980 985 990

Glu Ile Ser Phe Glu Val Val Met Asp Ile Tyr Glu Leu Glu Asn Pro
 995 1000 1005

Glu Gly Val Ile Leu Ser Met Gly Gly Gln Leu Pro Asn Asn Met
 1010 1015 1020

Ala Met Ala Leu His Arg Gln Gln Cys Arg Val Leu Gly Thr Ser
 1025 1030 1035

Pro Glu Ala Ile Asp Ser Ala Glu Asn Arg Phe Lys Phe Ser Arg
 1040 1045 1050

Leu Leu Asp Thr Ile Gly Ile Ser Gln Pro Gln Trp Arg Glu Leu
 1055 1060 1065

Ser Asp Leu Glu Ser Ala Arg Gln Phe Cys Gln Thr Val Gly Tyr
 1070 1075 1080

Pro Cys Val Val Arg Pro Ser Tyr Val Leu Ser Gly Ala Ala Met
 1085 1090 1095

Asn Val Ala Tyr Thr Asp Gly Asp Leu Glu Arg Phe Leu Ser Ser
 1100 1105 1110

Ala Ala Ala Val Ser Lys Glu His Pro Val Val Ile Ser Lys Phe
 1115 1120 1125

Ile Gln Glu Ala Lys Glu Ile Asp Val Asp Ala Val Ala Ser Asp
 1130 1135 1140

Gly Val Val Ala Ala Ile Ala Ile Ser Glu His Val Glu Asn Ala

1145	1150	1155
Gly Val His Ser Gly Asp Ala Thr Leu Val Thr Pro Pro Gln Asp 1160 1165 1170		
Ile Thr Ala Lys Thr Leu Glu Arg Ile Lys Ala Ile Val His Ala 1175 1180 1185		
Val Gly Gln Glu Leu Gln Val Thr Gly Pro Phe Asn Leu Gln Leu 1190 1195 1200		
Ile Ala Lys Asp Asp Gln Leu Lys Val Ile Glu Cys Asn Val Arg 1205 1210 1215		
Val Ser Arg Ser Phe Pro Phe Val Ser Lys Thr Leu Gly Val Asp 1220 1225 1230		
Leu Val Ala Leu Ala Thr Arg Val Ile Met Gly Glu Glu Val Glu 1235 1240 1245		
Pro Val Gly Leu Met Thr Gly Ser Gly Val Val Gly Val Lys Val 1250 1255 1260		
Pro Gln Phe Ser Phe Ser Arg Leu Ala Gly Ala Asp Val Val Leu 1265 1270 1275		
Gly Val Glu Met Thr Ser Thr Gly Glu Val Ala Gly Phe Gly Glu 1280 1285 1290		
Ser Arg Cys Glu Ala Tyr Leu Lys Ala Met Leu Ser Thr Gly Phe 1295 1300 1305		
Lys Ile Pro Lys Lys Asn Ile Leu Leu Thr Ile Gly Ser Tyr Lys 1310 1315 1320		
Asn Lys Ser Glu Leu Leu Pro Thr Val Arg Leu Leu Glu Ser Leu 1325 1330 1335		
Gly Tyr Ser Leu Tyr Ala Ser Leu Gly Thr Ala Asp Phe Tyr Thr 1340 1345 1350		
Glu His Gly Val Lys Val Thr Ala Val Asp Trp His Phe Glu Glu 1355 1360 1365		
Ala Val Asp Gly Glu Cys Pro Pro Gln Arg Ser Ile Leu Glu Gln 1370 1375 1380		

Leu Ala	Glu Lys Asn Phe	Glu	Leu Val Ile Asn	Leu	Ser Met Arg
1385		1390		1395	
Gly Ala	Gly Gly Arg Arg	Leu	Ser Ser Phe Val	Thr	Lys Gly Tyr
1400		1405		1410	
Arg Thr	Arg Arg Leu Ala	Ala	Asp Phe Ser Val	Pro	Leu Ile Ile
1415		1420		1425	
Asp Ile	Lys Cys Thr Lys	Leu	Phe Val Glu Ala	Leu	Gly Gln Ile
1430		1435		1440	
Gly Pro	Ala Pro Pro Leu	Lys	Val His Val Asp	Cys	Met Thr Ser
1445		1450		1455	
Gln Lys	Leu Val Arg Leu	Pro	Gly Leu Ile Asp	Val	His Val His
1460		1465		1470	
Leu Arg	Glu Pro Gly Gly	Thr	His Lys Glu Asp	Phe	Ala Ser Gly
1475		1480		1485	
Thr Ala	Ala Ala Leu Ala	Gly	Gly Ile Thr Met	Val	Cys Ala Met
1490		1495		1500	
Pro Asn	Thr Arg Pro Pro	Ile	Ile Asp Ala Pro	Ala	Leu Ala Leu
1505		1510		1515	
Ala Gln	Lys Leu Ala Glu	Ala	Gly Ala Arg Cys	Asp	Phe Ala Leu
1520		1525		1530	
Phe Leu	Gly Ala Ser Ser	Glu	Asn Ala Gly Thr	Leu	Gly Thr Val
1535		1540		1545	
Ala Gly	Ser Ala Ala Gly	Leu	Lys Leu Tyr Leu	Asn	Glu Thr Phe
1550		1555		1560	
Ser Glu	Leu Arg Leu Asp	Ser	Val Val Gln Trp	Met	Glu His Phe
1565		1570		1575	
Glu Thr	Trp Pro Ser His	Leu	Pro Ile Val Ala	His	Ala Glu Gln
1580		1585		1590	
Gln Thr	Val Ala Ala Val	Leu	Met Val Ala Gln	Leu	Thr Gln Arg
1595		1600		1605	

Ser	Val	His	Ile	Cys	His	Val	Ala	Arg	Lys	Glu	Glu	Val	Arg	Val
1610						1615					1620			
His	Leu	Arg	Ser	Cys	Cys	Pro	Cys	Cys	Phe	Pro	Ser	Asn	Thr	Lys
1625						1630					1635			
Gly	Gln	Val	Val	Leu	Arg	Gly	Arg	Arg	Gln	Gln	Glu	Glu	Ser	Leu
1640						1645					1650			
Glu	Thr	Ala	Gly	Gly	Gly	Ser	Arg	Ala	Ser	Thr	Leu	Ala	Gly	Leu
1655						1660					1665			
His	His	His	Phe	Phe	Glu	Gln	Gly	Cys	Trp	Pro	Leu	Gly	Leu	Cys
1670						1675					1680			
Val	Gly	Gln	Gly	Ile	Trp	Val	Val	Pro	Leu	Leu	Asp	Leu	Pro	Ile
1685						1690					1695			
Val	Pro	Gln	Ile	Leu	Leu	Ile	Lys	Ala	Ala	Lys	Ala	Arg	Gly	Leu
1700						1705					1710			
Pro	Val	Thr	Cys	Glu	Val	Ala	Pro	His	His	Leu	Phe	Leu	Ser	His
1715						1720					1725			
Asp	Asp	Leu	Glu	Arg	Leu	Gly	Pro	Gly	Lys	Gly	Glu	Val	Arg	Pro
1730						1735					1740			
Glu	Leu	Gly	Ser	Arg	Gln	Asp	Val	Glu	Ala	Leu	Trp	Glu	Asn	Met
1745						1750					1755			
Ala	Val	Ile	Asp	Cys	Phe	Ala	Ser	Asp	His	Ala	Pro	His	Thr	Leu
1760						1765					1770			
Glu	Glu	Lys	Cys	Gly	Ser	Arg	Pro	Pro	Pro	Gly	Phe	Pro	Gly	Leu
1775						1780					1785			
Glu	Thr	Met	Leu	Pro	Leu	Leu	Leu	Thr	Ala	Val	Ser	Glu	Gly	Arg
1790						1795					1800			
Leu	Ser	Leu	Asp	Asp	Leu	Leu	Gln	Arg	Leu	His	His	Asn	Pro	Arg
1805						1810					1815			
Arg	Ile	Phe	His	Leu	Pro	Pro	Gln	Glu	Asp	Thr	Tyr	Val	Glu	Val
1820						1825					1830			

Asp Leu 1835	Glu His Glu Trp Thr 1840	Ile Pro Ser His Met 1845	Pro Phe Ser
Lys Ala 1850	His Trp Thr Pro Phe 1855	Glu Gly Gln Lys Val 1860	Lys Gly Thr
Val Arg 1865	Arg Val Val Leu Arg 1870	Gly Glu Val Ala Tyr 1875	Ile Asp Gly
Gln Val 1880	Leu Val Pro Pro Gly 1885	Tyr Gly Gln Asp Val 1890	Arg Lys Trp
Pro Gln 1895	Gly Ala Val Pro Gln 1900	Leu Pro Pro Ser Ala 1905	Pro Ala Thr
Ser Glu 1910	Met Thr Thr Thr Pro 1915	Glu Arg Pro Arg Arg 1920	Gly Ile Pro
Gly Leu 1925	Pro Asp Gly Arg Phe 1930	His Leu Pro Pro Arg 1935	Ile His Arg
Ala Ser 1940	Asp Pro Gly Leu Pro 1945	Ala Glu Glu Pro Lys 1950	Glu Lys Ser
Ser Arg 1955	Lys Val Ala Glu Pro 1960	Glu Leu Met Gly Thr 1965	Pro Asp Gly
Thr Cys 1970	Tyr Pro Pro Pro Pro 1975	Val Pro Arg Gln Ala 1980	Ser Pro Gln
Asn Leu 1985	Gly Thr Pro Gly Leu 1990	Leu His Pro Gln Thr 1995	Ser Pro Leu
Leu His 2000	Ser Leu Val Gly Gln 2005	His Ile Leu Ser Val 2010	Gln Gln Phe
Thr Lys 2015	Asp Gln Met Ser His 2020	Leu Phe Asn Val Ala 2025	His Thr Leu
Arg Met 2030	Met Val Gln Lys Glu 2035	Arg Ser Leu Asp Ile 2040	Leu Lys Gly
Lys Val 2045	Met Ala Ser Met Phe 2050	Tyr Glu Val Ser Thr 2055	Arg Thr Ser
Ser Ser	Phe Ala Ala Ala Met	Ala Arg Leu Gly Gly	Ala Val Leu

2060	2065	2070
Ser Phe 2075	Ser Glu Ala Thr Ser 2080	Ser Val Gln Lys Gly Glu Ser Leu 2085
Ala Asp 2090	Ser Val Gln Thr Met 2095	Ser Cys Tyr Ala Asp Val Val Val 2100
Leu Arg 2105	His Pro Gln Pro Gly 2110	Ala Val Glu Leu Ala Ala Lys His 2115
Cys Arg 2120	Arg Pro Val Ile Asn 2125	Ala Gly Asp Gly Val Gly Glu His 2130
Pro Thr 2135	Gln Ala Leu Leu Asp 2140	Ile Phe Thr Ile Arg Glu Glu Leu 2145
Gly Thr 2150	Val Asn Gly Met Thr 2155	Ile Thr Met Val Gly Asp Leu Lys 2160
His Gly 2165	Arg Thr Val His Ser 2170	Leu Ala Cys Leu Leu Thr Gln Tyr 2175
Arg Val 2180	Ser Leu Arg Tyr Val 2185	Ala Pro Pro Ser Leu Arg Met Pro 2190
Pro Thr 2195	Val Arg Ala Phe Val 2200	Ala Ser Arg Gly Thr Lys Gln Glu 2205
Glu Phe 2210	Glu Ser Ile Glu Glu 2215	Ala Leu Pro Asp Thr Asp Val Leu 2220
Tyr Met 2225	Thr Arg Ile Gln Lys 2230	Glu Arg Phe Gly Ser Thr Gln Glu 2235
Tyr Glu 2240	Ala Cys Phe Gly Gln 2245	Phe Ile Leu Thr Pro His Ile Met 2250
Thr Arg 2255	Ala Lys Lys Lys Met 2260	Val Val Met His Pro Met Pro Arg 2265
Val Asn 2270	Glu Ile Ser Val Glu 2275	Val Asp Ser Asp Pro Arg Ala Ala 2280
Tyr Phe 2285	Arg Gln Ala Glu Asn 2290	Gly Met Tyr Ile Arg Met Ala Leu 2295

Leu Ala Thr Val Leu Gly Arg Phe
2300 2305

<210> 128
<211> 1651
<212> PRT
<213> Homo sapien

<400> 128

Pro Pro Pro Leu Ser Ser Leu Pro Met Ala Ala Leu Val Leu Glu Asp
1 5 10 15

Gly Ser Val Leu Arg Gly Gln Pro Phe Gly Ala Ala Val Ser Thr Ala
20 25 30

Gly Glu Val Val Phe Gln Thr Gly Met Val Gly Tyr Pro Glu Ala Leu
35 40 45

Thr Asp Pro Ser Tyr Lys Ala Gln Ile Leu Val Leu Thr Tyr Pro Leu
50 55 60

Ile Gly Asn Tyr Gly Ile Pro Pro Asp Glu Met Asp Glu Phe Gly Leu
65 70 75 80

Cys Lys Trp Phe Glu Ser Ser Gly Ile His Val Ala Ala Leu Val Val
85 90 95

Gly Glu Cys Cys Pro Thr Pro Ser His Trp Ser Ala Thr Arg Thr Leu
100 105 110

His Glu Trp Leu Gln Gln His Gly Ile Pro Gly Leu Gln Gly Val Asp
115 120 125

Thr Arg Glu Leu Thr Lys Lys Leu Arg Glu Gln Gly Ser Leu Leu Gly
130 135 140

Lys Leu Val Gln Asn Gly Thr Glu Pro Ser Ser Leu Pro Phe Leu Asp
145 150 155 160

Pro Asn Ala Arg Pro Leu Val Pro Glu Val Ser Ile Lys Thr Pro Arg
165 170 175

Val Phe Asn Thr Gly Gly Ala Pro Arg Ile Leu Ala Leu Asp Cys Gly
180 185 190

Leu Lys Tyr Asn Gln Ile Arg Cys Leu Cys Gln Arg Gly Ala Glu Val
 195 200 205

Thr Val Val Pro Trp Asp His Ala Leu Asp Ser Gln Glu Tyr Glu Gly
 210 215 220

Leu Phe Leu Ser Asn Gly Pro Gly Asp Pro Ala Ser Tyr Pro Ser Val
 225 230 235 240

Val Ser Thr Leu Ser Arg Val Leu Ser Glu Pro Asn Pro Arg Pro Val
 245 250 255

Phe Gly Ile Cys Leu Gly His Gln Leu Leu Ala Leu Ala Ile Gly Ala
 260 265 270

Lys Thr Tyr Lys Met Arg Tyr Gly Asn Arg Gly His Asn Gln Pro Cys
 275 280 285

Leu Leu Val Gly Ser Gly Arg Cys Phe Leu Thr Ser Gln Asn His Gly
 290 295 300

Phe Ala Val Glu Thr Asp Ser Leu Pro Ala Asp Trp Ala Pro Leu Phe
 305 310 315 320

Thr Asn Ala Asn Asp Gly Ser Asn Glu Gly Ile Val His Asn Ser Leu
 325 330 335

Pro Phe Phe Ser Val Gln Phe His Pro Glu His Gln Ala Gly Pro Ser
 340 345 350

Asp Met Glu Leu Leu Phe Asp Ile Phe Leu Glu Thr Val Lys Glu Ala
 355 360 365

Thr Ala Gly Asn Pro Gly Gly Gln Thr Val Arg Glu Arg Leu Thr Glu
 370 375 380

Arg Leu Cys Pro Pro Gly Ile Pro Thr Pro Gly Ser Gly Leu Pro Pro
 385 390 395 400

Pro Arg Lys Val Leu Ile Leu Gly Ser Gly Gly Leu Ser Ile Gly Gln
 405 410 415

Ala Gly Glu Phe Asp Tyr Ser Gly Ser Gln Ala Ile Lys Ala Leu Lys
 420 425 430

Glu Glu Asn Ile Gln Thr Leu Leu Ile Asn Pro Asn Ile Ala Thr Val

194/383

435	440	445
Gln Thr Ser Gln Gly Leu Ala Asp Lys Val Tyr Phe Leu Pro Ile Thr 450 455 460		
Pro His Tyr Val Thr Gln Val Ile Arg Asn Glu Arg Pro Asp Gly Val 465 470 475 480		
Leu Leu Thr Phe Gly Gly Gln Thr Ala Leu Asn Cys Gly Val Glu Leu 485 490 495		
Thr Lys Ala Gly Val Leu Ala Arg Tyr Gly Val Arg Val Leu Gly Thr 500 505 510		
Thr Val Glu Thr Ile Glu Leu Thr Glu Asp Arg Arg Ala Phe Ala Ala 515 520 525		
Arg Met Ala Glu Ile Gly Glu His Val Ala Pro Ser Glu Ala Gly Asn 530 535 540		
Ser Leu Glu Gln Ala Gln Ala Ala Ala Glu Arg Leu Gly Tyr Pro Val 545 550 555 560		
Leu Val Arg Ala Ala Phe Ala Val Gly Gly Leu Gly Ser Gly Phe Ala 565 570 575		
Ser Asn Arg Glu Glu Leu Ser Ala Leu Val Ala Pro Ala Phe Ala His 580 585 590		
Thr Ser Gln Val Leu Val Asp Lys Ser Leu Lys Gly Trp Lys Glu Ile 595 600 605		
Glu Tyr Glu Val Val Arg Asp Ala Tyr Gly Asn Cys Val Thr Val Cys 610 615 620		
Asn Met Glu Asn Leu Asp Pro Leu Gly Ile His Thr Gly Glu Ser Ile 625 630 635 640		
Val Val Ala Pro Ser Gln Thr Leu Asn Asp Arg Glu Tyr Gln Leu Leu 645 650 655		
Arg Gln Thr Ala Ile Lys Val Thr Gln His Leu Gly Ile Val Gly Glu 660 665 670		
Cys Asn Val Gln Tyr Ala Leu Asn Pro Glu Ser Glu Gln Tyr Tyr Ile 675 680 685		

Ile Glu Val Asn Ala Arg Leu Ser Arg Ser Ser Ala Leu Ala Ser Lys
 690 695 700

Ala Thr Gly Tyr Pro Leu Ala Tyr Val Ala Ala Lys Leu Ala Leu Gly
 705 710 715 720

Ile Pro Leu Pro Glu Leu Arg Asn Ser Val Thr Gly Gly Thr Ala Ala
 725 730 735

Phe Glu Pro Ser Val Asp Tyr Cys Val Val Lys Ile Pro Arg Trp Asp
 740 745 750

Leu Ser Lys Phe Leu Arg Val Ser Thr Lys Ile Gly Ser Cys Met Lys
 755 760 765

Ser Val Gly Glu Val Met Gly Ile Gly Arg Ser Phe Glu Glu Ala Phe
 770 775 780

Gln Lys Ala Leu Arg Met Val Asp Glu Asn Cys Val Gly Phe Asp His
 785 790 795 800

Thr Val Lys Pro Val Ser Asp Met Glu Leu Glu Thr Pro Thr Asp Lys
 805 810 815

Arg Ile Phe Val Val Ala Ala Ala Leu Trp Ala Gly Tyr Ser Val Asp
 820 825 830

Arg Leu Tyr Glu Leu Thr Arg Ile Asp Arg Trp Phe Leu His Arg Met
 835 840 845

Lys Arg Ile Ile Ala His Ala Gln Leu Leu Glu Gln His Arg Gly Gln
 850 855 860

Pro Leu Pro Pro Asp Leu Leu Gln Gln Ala Lys Cys Leu Gly Phe Ser
 865 870 875 880

Asp Lys Gln Ile Ala Leu Ala Val Leu Ser Thr Glu Leu Ala Val Arg
 885 890 895

Lys Leu Arg Gln Glu Leu Gly Ile Cys Pro Ala Val Lys Gln Ile Asp
 900 905 910

Thr Val Ala Ala Glu Trp Pro Ala Gln Thr Asn Tyr Leu Tyr Leu Thr
 915 920 925

Tyr Trp Gly Thr Thr His Asp Leu Thr Phe Arg Thr Pro His Val Leu
 930 935 940

Val Leu Gly Ser Gly Val Tyr Arg Ile Gly Ser Ser Val Glu Phe Asp
 945 950 955 960

Trp Cys Ala Val Gly Cys Ile Gln Gln Leu Arg Lys Met Gly Tyr Lys
 965 970 975

Thr Ile Met Val Asn Tyr Asn Pro Glu Thr Val Ser Thr Asp Tyr Asp
 980 985 990

Met Cys Asp Arg Leu Tyr Phe Asp Glu Ile Ser Phe Glu Val Val Met
 995 1000 1005

Asp Ile Tyr Glu Leu Glu Asn Pro Glu Gly Val Ile Leu Ser Met
 1010 1015 1020

Gly Gly Gln Leu Pro Asn Asn Met Ala Met Ala Leu His Arg Gln
 1025 1030 1035

Gln Cys Arg Val Leu Gly Thr Ser Pro Glu Ala Ile Asp Ser Ala
 1040 1045 1050

Glu Asn Arg Phe Lys Phe Ser Arg Leu Leu Asp Thr Ile Gly Ile
 1055 1060 1065

Ser Gln Pro Gln Trp Arg Glu Leu Ser Asp Leu Glu Ser Ala Arg
 1070 1075 1080

Gln Phe Cys Gln Thr Val Gly Tyr Pro Cys Val Val Arg Pro Ser
 1085 1090 1095

Tyr Val Leu Ser Gly Ala Ala Met Asn Val Ala Tyr Thr Asp Gly
 1100 1105 1110

Asp Leu Glu Arg Phe Leu Ser Ser Ala Ala Ala Val Ser Lys Glu
 1115 1120 1125

His Pro Val Val Ile Ser Lys Phe Ile Gln Glu Ala Lys Glu Ile
 1130 1135 1140

Asp Val Asp Ala Val Ala Ser Asp Gly Val Val Ala Ala Ile Ala
 1145 1150 1155

Ile Ser Glu His Val Glu Asn Ala Gly Val His Ser Gly Asp Ala
 1160 1165 1170

Thr Leu Val Thr Pro Pro Gln Asp Ile Thr Ala Lys Thr Leu Glu
 1175 1180 1185

Arg Ile Lys Ala Ile Val His Ala Val Gly Gln Glu Leu Gln Val
 1190 1195 1200

Thr Gly Pro Phe Asn Leu Gln Leu Ile Ala Lys Asp Asp Gln Leu
 1205 1210 1215

Lys Val Ile Glu Cys Asn Val Arg Val Ser Arg Ser Phe Pro Phe
 1220 1225 1230

Val Ser Lys Thr Leu Gly Val Asp Leu Val Ala Leu Ala Thr Arg
 1235 1240 1245

Val Ile Met Gly Glu Glu Val Glu Pro Val Gly Leu Met Thr Gly
 1250 1255 1260

Ser Gly Val Val Gly Val Lys Val Pro Gln Phe Ser Phe Ser Arg
 1265 1270 1275

Leu Ala Gly Ala Asp Val Val Leu Gly Val Glu Met Thr Ser Thr
 1280 1285 1290

Gly Glu Val Ala Gly Phe Gly Glu Ser Arg Cys Glu Ala Tyr Leu
 1295 1300 1305

Lys Ala Met Leu Ser Thr Gly Phe Lys Ile Pro Lys Lys Asn Ile
 1310 1315 1320

Leu Leu Thr Ile Gly Ser Tyr Lys Asn Lys Ser Glu Leu Leu Pro
 1325 1330 1335

Thr Val Arg Leu Leu Glu Ser Leu Gly Tyr Ser Leu Tyr Ala Ser
 1340 1345 1350

Leu Gly Thr Ala Asp Phe Tyr Thr Glu His Gly Val Lys Val Thr
 1355 1360 1365

Ala Val Asp Trp His Phe Glu Glu Ala Val Asp Gly Glu Cys Pro
 1370 1375 1380

Pro Gln Arg Ser Ile Leu Glu Gln Leu Ala Glu Lys Asn Phe Glu

1385		1390		1395
Leu Val 1400	Ile Asn Leu Ser Met	Arg Gly Ala Gly Gly	Arg Arg Leu	
		1405	1410	
Ser Ser 1415	Phe Val Thr Lys Gly	Tyr Arg Thr Arg Arg	Leu Ala Ala	
		1420	1425	
Asp Phe 1430	Ser Val Pro Leu Ile	Ile Asp Ile Lys Cys	Thr Lys Leu	
		1435	1440	
Phe Val 1445	Glu Ala Leu Gly Gln	Ile Gly Pro Ala Pro	Pro Leu Lys	
		1450	1455	
Val His 1460	Val Asp Cys Met Thr	Ser Gln Lys Leu Val	Arg Leu Pro	
		1465	1470	
Gly Leu 1475	Ile Asp Val His Val	His Leu Arg Glu Pro	Gly Gly Thr	
		1480	1485	
His Lys 1490	Glu Asp Phe Ala Ser	Gly Thr Ala Ala Ala	Leu Ala Gly	
		1495	1500	
Gly Ile 1505	Thr Met Val Cys Ala	Met Pro Asn Thr Arg	Pro Pro Ile	
		1510	1515	
Ile Asp 1520	Ala Pro Ala Leu Ala	Leu Ala Gln Lys Leu	Ala Glu Ala	
		1525	1530	
Gly Ala 1535	Arg Cys Asp Phe Ala	Leu Phe Leu Gly Ala	Ser Ser Glu	
		1540	1545	
Asn Ala 1550	Gly Thr Leu Gly Thr	Val Ala Gly Ser Ala	Ala Gly Leu	
		1555	1560	
Lys Leu 1565	Tyr Leu Asn Glu Thr	Phe Ser Glu Leu Arg	Leu Asp Ser	
		1570	1575	
Val Val 1580	Gln Trp Met Glu His	Phe Glu Thr Trp Pro	Ser His Leu	
		1585	1590	
Pro Ile 1595	Val Ala His Ala Glu	Gln Gln Thr Val Ala	Ala Val Leu	
		1600	1605	
Met Val 1610	Ala Gln Leu Thr Gln	Arg Ser Val His Ile	Cys His Val	
		1615	1620	

Ala Arg Lys Glu Glu Val Arg Val His Leu Arg Ser Cys Cys Pro
 1625 1630 1635

Cys Cys Phe Pro Ser Asn Thr Lys Gly Gln Gly Ser Pro
 1640 1645 1650

<210> 129
 <211> 2242
 <212> PRT
 <213> Homo sapien

<400> 129

Met Ala Ala Leu Val Leu Glu Asp Gly Ser Val Leu Arg Gly Gln Pro
 1 5 10 15

Phe Gly Ala Ala Val Ser Thr Ala Gly Glu Val Val Phe Gln Thr Gly
 20 25 30

Met Val Gly Tyr Pro Glu Ala Leu Thr Asp Pro Ser Tyr Lys Ala Gln
 35 40 45

Ile Leu Val Leu Thr Tyr Pro Leu Ile Gly Asn Tyr Gly Ile Pro Pro
 50 55 60

Asp Glu Met Asp Glu Phe Gly Leu Cys Lys Trp Phe Glu Ser Ser Gly
 65 70 75 80

Ile His Val Ala Ala Leu Val Val Gly Glu Cys Cys Pro Thr Pro Ser
 85 90 95

His Trp Ser Ala Thr Arg Thr Leu His Glu Trp Leu Gln Gln His Gly
 100 105 110

Ile Pro Gly Leu Gln Gly Val Asp Thr Arg Glu Leu Thr Lys Lys Leu
 115 120 125

Arg Glu Gln Gly Ser Leu Leu Gly Lys Leu Val Gln Asn Gly Thr Glu
 130 135 140

Pro Ser Ser Leu Pro Phe Leu Asp Pro Asn Ala Arg Pro Leu Val Pro
 145 150 155 160

Glu Val Ser Ile Lys Thr Pro Arg Val Phe Asn Thr Gly Gly Ala Pro
 165 170 175

Arg Ile Leu Ala Leu Asp Cys Gly Leu Lys Tyr Asn Gln Ile Arg Cys
 180 185 190

Leu Cys Gln Arg Gly Ala Glu Val Thr Val Val Pro Trp Asp His Ala
 195 200 205

Leu Asp Ser Gln Glu Tyr Glu Gly Leu Phe Leu Ser Asn Gly Pro Gly
 210 215 220

Asp Pro Ala Ser Tyr Pro Ser Val Val Ser Thr Leu Ser Arg Val Leu
 225 230 235 240

Ser Glu Pro Asn Pro Arg Pro Val Phe Gly Ile Cys Leu Gly His Gln
 245 250 255

Leu Leu Ala Leu Ala Ile Gly Ala Lys Thr Tyr Lys Met Arg Tyr Gly
 260 265 270

Asn Arg Gly His Asn Gln Pro Cys Leu Leu Val Gly Ser Gly Arg Cys
 275 280 285

Phe Leu Thr Ser Gln Asn His Gly Phe Ala Val Glu Thr Asp Ser Leu
 290 295 300

Pro Ala Asp Trp Ala Pro Leu Phe Thr Asn Ala Asn Asp Gly Ser Asn
 305 310 315 320

Glu Gly Ile Val His Asn Ser Leu Pro Phe Phe Ser Val Gln Phe His
 325 330 335

Pro Glu His Gln Ala Gly Pro Ser Asp Met Glu Leu Leu Phe Asp Ile
 340 345 350

Phe Leu Glu Thr Val Lys Glu Ala Thr Ala Gly Asn Pro Gly Gly Gln
 355 360 365

Thr Val Arg Glu Arg Leu Thr Glu Arg Leu Cys Pro Pro Gly Ile Pro
 370 375 380

Thr Pro Gly Ser Gly Leu Pro Pro Pro Arg Lys Val Leu Ile Leu Gly
 385 390 395 400

Ser Gly Gly Leu Ser Ile Gly Gln Ala Gly Glu Phe Asp Tyr Ser Gly
 405 410 415

Ser Gln Ala Ile Lys Ala Leu Lys Glu Glu Asn Ile Gln Thr Leu Leu

420	425	430
Ile Asn Pro Asn Ile Ala Thr Val Gln Thr Ser Gln Gly Leu Ala Asp 435 440 445		
Lys Val Tyr Phe Leu Pro Ile Thr Pro His Tyr Val Thr Gln Val Ile 450 455 460		
Arg Asn Glu Arg Pro Asp Gly Val Leu Leu Thr Phe Gly Gly Gln Thr 465 470 475 480		
Ala Leu Asn Cys Gly Val Glu Leu Thr Lys Ala Gly Val Leu Ala Arg 485 490 495		
Tyr Gly Val Arg Val Leu Gly Thr Thr Val Glu Thr Ile Glu Leu Thr 500 505 510		
Glu Asp Arg Arg Ala Phe Ala Ala Arg Met Ala Glu Ile Gly Glu His 515 520 525		
Val Ala Pro Ser Glu Ala Gly Asn Ser Leu Glu Gln Ala Gln Ala Ala 530 535 540		
Ala Glu Arg Leu Gly Tyr Pro Val Leu Val Arg Ala Ala Phe Ala Val 545 550 555 560		
Gly Gly Leu Gly Ser Gly Phe Ala Ser Asn Arg Glu Glu Leu Ser Ala 565 570 575		
Leu Val Ala Pro Ala Phe Ala His Thr Ser Gln Val Leu Val Asp Lys 580 585 590		
Ser Leu Lys Gly Trp Lys Glu Ile Glu Tyr Glu Val Val Arg Asp Ala 595 600 605		
Tyr Gly Asn Cys Val Thr Val Cys Asn Met Glu Asn Leu Asp Pro Leu 610 615 620		
Gly Ile His Thr Gly Glu Ser Ile Val Val Ala Pro Ser Gln Thr Leu 625 630 635 640		
Asn Asp Arg Glu Tyr Gln Leu Leu Arg Gln Thr Ala Ile Lys Val Thr 645 650 655		
Gln His Leu Gly Ile Val Gly Glu Cys Asn Val Gln Tyr Ala Leu Asn 660 665 670		

Pro Glu Ser Glu Gln Tyr Tyr Ile Ile Glu Val Asn Ala Arg Leu Ser
675 680 685

Arg Ser Ser Ala Leu Ala Ser Lys Ala Thr Gly Tyr Pro Leu Ala Tyr
690 695 700

Val Ala Ala Lys Leu Ala Leu Gly Ile Pro Leu Pro Glu Leu Arg Asn
705 710 715 720

Ser Val Thr Gly Gly Thr Ala Ala Phe Glu Pro Ser Val Asp Tyr Cys
725 730 735

Val Val Lys Ile Pro Arg Trp Asp Leu Ser Lys Phe Leu Arg Val Ser
740 745 750

Thr Lys Ile Gly Ser Cys Met Lys Ser Val Gly Glu Val Met Gly Ile
755 760 765

Gly Arg Ser Phe Glu Glu Ala Phe Gln Lys Ala Leu Arg Met Val Asp
770 775 780

Glu Asn Cys Val Gly Phe Asp His Thr Val Lys Pro Val Ser Asp Met
785 790 795 800

Glu Leu Glu Thr Pro Thr Asp Lys Arg Ile Phe Val Val Ala Ala Ala
805 810 815

Leu Trp Ala Gly Tyr Ser Val Asp Arg Leu Tyr Glu Leu Thr Arg Ile
820 825 830

Asp Arg Trp Phe Leu His Arg Met Lys Arg Ile Ile Ala His Ala Gln
835 840 845

Leu Leu Glu Gln His Arg Gly Gln Pro Leu Pro Pro Asp Leu Leu Gln
850 855 860

Gln Ala Lys Cys Leu Gly Phe Ser Asp Lys Gln Ile Ala Leu Ala Val
865 870 875 880

Leu Ser Thr Glu Leu Ala Val Arg Lys Leu Arg Gln Glu Leu Gly Ile
885 890 895

Cys Pro Ala Val Lys Gln Ile Asp Thr Val Ala Ala Glu Trp Pro Ala
900 905 910

Gln Thr Asn Tyr Leu Tyr Leu Thr Tyr Trp Gly Thr Thr His Asp Leu
915 920 925

Thr Phe Arg Thr Pro His Val Leu Val Leu Gly Ser Gly Val Tyr Arg
930 935 940

Ile Gly Ser Ser Val Glu Phe Asp Trp Cys Ala Val Gly Cys Ile Gln
945 950 955 960

Gln Leu Arg Lys Met Gly Tyr Lys Thr Ile Met Val Asn Tyr Asn Pro
965 970 975

Glu Thr Val Ser Thr Asp Tyr Asp Met Cys Asp Arg Leu Tyr Phe Asp
980 985 990

Glu Ile Ser Phe Glu Val Val Met Asp Ile Tyr Glu Leu Glu Asn Pro
995 1000 1005

Glu Gly Val Ile Leu Ser Met Gly Gly Gln Leu Pro Asn Asn Met
1010 1015 1020

Ala Met Ala Leu His Arg Gln Gln Cys Arg Val Leu Gly Thr Ser
1025 1030 1035

Pro Glu Ala Ile Asp Ser Ala Glu Asn Arg Phe Lys Phe Ser Arg
1040 1045 1050

Leu Leu Asp Thr Ile Gly Ile Ser Gln Pro Gln Trp Arg Glu Leu
1055 1060 1065

Ser Asp Leu Glu Ser Ala Arg Gln Phe Cys Gln Thr Val Gly Tyr
1070 1075 1080

Pro Cys Val Val Arg Pro Ser Tyr Val Leu Ser Gly Ala Ala Met
1085 1090 1095

Asn Val Ala Tyr Thr Asp Gly Asp Leu Glu Arg Phe Leu Ser Ser
1100 1105 1110

Ala Ala Ala Val Ser Lys Glu His Pro Val Val Ile Ser Lys Phe
1115 1120 1125

Ile Gln Glu Ala Lys Glu Ile Asp Val Asp Ala Val Ala Ser Asp
1130 1135 1140

Gly Val Val Ala Ala Ile Ala Ile Ser Glu His Val Glu Asn Ala
 1145 1150 1155

Gly Val His Ser Gly Asp Ala Thr Leu Val Thr Pro Pro Gln Asp
 1160 1165 1170

Ile Thr Ala Lys Thr Leu Glu Arg Ile Lys Ala Ile Val His Ala
 1175 1180 1185

Val Gly Gln Glu Leu Gln Val Thr Gly Pro Phe Asn Leu Gln Leu
 1190 1195 1200

Ile Ala Lys Asp Asp Gln Leu Lys Val Ile Glu Cys Asn Val Arg
 1205 1210 1215

Val Ser Arg Ser Phe Pro Phe Val Ser Lys Thr Leu Gly Val Asp
 1220 1225 1230

Leu Val Ala Leu Ala Thr Arg Val Ile Met Gly Glu Glu Val Glu
 1235 1240 1245

Pro Val Gly Leu Met Thr Gly Ser Gly Val Val Gly Val Lys Val
 1250 1255 1260

Pro Gln Phe Ser Phe Ser Arg Leu Ala Gly Ala Asp Val Val Leu
 1265 1270 1275

Gly Val Glu Met Thr Ser Thr Gly Glu Val Ala Gly Phe Gly Glu
 1280 1285 1290

Ser Arg Cys Glu Ala Tyr Leu Lys Ala Met Leu Ser Thr Gly Phe
 1295 1300 1305

Lys Ile Pro Lys Lys Asn Ile Leu Leu Thr Ile Gly Ser Tyr Lys
 1310 1315 1320

Asn Lys Ser Glu Leu Leu Pro Thr Val Arg Leu Leu Glu Ser Leu
 1325 1330 1335

Gly Tyr Ser Leu Tyr Ala Ser Leu Gly Thr Ala Asp Phe Tyr Thr
 1340 1345 1350

Glu His Gly Val Lys Val Thr Ala Val Asp Trp His Phe Glu Glu
 1355 1360 1365

Ala Val Asp Gly Glu Cys Pro Pro Gln Arg Ser Ile Leu Glu Gln

1370		1375		1380
Leu Ala	Glu Lys Asn Phe	Glu Leu Val Ile Asn	Leu Ser Met Arg	
1385		1390	1395	
Gly Ala	Gly Gly Arg Arg	Leu Ser Ser Phe Val	Thr Lys Gly Tyr	
1400		1405	1410	
Arg Thr	Arg Arg Leu Ala	Ala Asp Phe Ser Val	Pro Leu Ile Ile	
1415		1420	1425	
Asp Ile	Lys Cys Thr Lys	Leu Phe Val Glu Ala	Leu Gly Gln Ile	
1430		1435	1440	
Gly Pro	Ala Pro Pro Leu	Lys Val His Val Asp	Cys Met Thr Ser	
1445		1450	1455	
Gln Lys	Leu Val Arg Leu	Pro Gly Leu Ile Asp	Val His Val His	
1460		1465	1470	
Leu Arg	Glu Pro Gly Gly	Thr His Lys Glu Asp	Phe Ala Ser Gly	
1475		1480	1485	
Thr Ala	Ala Ala Leu Ala	Gly Gly Ile Thr Met	Val Cys Ala Met	
1490		1495	1500	
Pro Asn	Thr Arg Pro Pro	Ile Ile Asp Ala Pro	Ala Leu Ala Leu	
1505		1510	1515	
Ala Gln	Lys Leu Ala Glu	Ala Gly Ala Arg Cys	Asp Phe Ala Leu	
1520		1525	1530	
Phe Leu	Gly Ala Ser Ser	Glu Asn Ala Gly Thr	Leu Gly Thr Val	
1535		1540	1545	
Ala Gly	Ser Ala Ala Gly	Leu Lys Leu Tyr Leu	Asn Glu Thr Phe	
1550		1555	1560	
Ser Glu	Leu Arg Leu Asp	Ser Val Val Gln Trp	Met Glu His Phe	
1565		1570	1575	
Glu Thr	Trp Pro Ser His	Leu Pro Ile Val Ala	His Ala Glu Gln	
1580		1585	1590	
Gln Thr	Val Ala Ala Val	Leu Met Val Ala Gln	Leu Thr Gln Arg	
1595		1600	1605	

Ser Val	His Ile Cys His Val	Ala Arg Lys Glu Glu	Ile Leu Leu
1610	1615	1620	
Ile Lys	Ala Ala Lys Ala Arg	Gly Leu Pro Val Thr	Cys Glu Val
1625	1630	1635	
Ala Pro	His His Leu Phe Leu	Ser His Asp Asp Leu	Glu Arg Leu
1640	1645	1650	
Gly Pro	Gly Lys Gly Glu Val	Arg Pro Glu Leu Gly	Ser Arg Gln
1655	1660	1665	
Asp Val	Glu Ala Leu Trp Glu	Asn Met Ala Val Ile	Asp Cys Phe
1670	1675	1680	
Ala Ser	Asp His Ala Pro His	Thr Leu Glu Glu Lys	Cys Gly Ser
1685	1690	1695	
Arg Pro	Pro Pro Gly Phe Pro	Gly Leu Glu Thr Met	Leu Pro Leu
1700	1705	1710	
Leu Leu	Thr Ala Val Ser Glu	Gly Arg Leu Ser Leu	Asp Asp Leu
1715	1720	1725	
Leu Gln	Arg Leu His His Asn	Pro Arg Arg Ile Phe	His Leu Pro
1730	1735	1740	
Pro Gln	Glu Asp Thr Tyr Val	Glu Val Asp Leu Glu	His Glu Trp
1745	1750	1755	
Thr Ile	Pro Ser His Met Pro	Phe Ser Lys Ala His	Trp Thr Pro
1760	1765	1770	
Phe Glu	Gly Gln Lys Val Lys	Gly Thr Val Arg Arg	Val Val Leu
1775	1780	1785	
Arg Gly	Glu Val Ala Tyr Ile	Asp Gly Gln Val Leu	Val Pro Pro
1790	1795	1800	
Gly Tyr	Gly Gln Asp Val Arg	Lys Trp Pro Gln Gly	Ala Val Pro
1805	1810	1815	
Gln Leu	Pro Pro Ser Ala Pro	Ala Thr Ser Glu Met	Thr Thr Thr
1820	1825	1830	

Pro	Glu	Arg	Pro	Arg	Arg	Gly	Ile	Pro	Gly	Leu	Pro	Asp	Gly	Arg
1835						1840					1845			
Phe	His	Leu	Pro	Pro	Arg	Ile	His	Arg	Ala	Ser	Asp	Pro	Gly	Leu
1850						1855					1860			
Pro	Ala	Val	Phe	Leu	Arg	Pro	Gly	Ala	Gly	Ile	Pro	Arg	Gly	Ser
1865						1870					1875			
Arg	Ala	Trp	Ala	Glu	Glu	Pro	Lys	Glu	Lys	Ser	Ser	Arg	Lys	Val
1880						1885					1890			
Ala	Glu	Pro	Glu	Leu	Met	Gly	Thr	Pro	Asp	Gly	Thr	Cys	Tyr	Pro
1895						1900					1905			
Pro	Pro	Pro	Val	Pro	Arg	Gln	Ala	Ser	Pro	Gln	Asn	Leu	Gly	Thr
1910						1915					1920			
Pro	Gly	Leu	Leu	His	Pro	Gln	Thr	Ser	Pro	Leu	Leu	His	Ser	Leu
1925						1930					1935			
Val	Gly	Gln	His	Ile	Leu	Ser	Val	Gln	Gln	Phe	Thr	Lys	Asp	Gln
1940						1945					1950			
Met	Ser	His	Leu	Phe	Asn	Val	Ala	His	Thr	Leu	Arg	Met	Met	Val
1955						1960					1965			
Gln	Lys	Glu	Arg	Ser	Leu	Asp	Ile	Leu	Lys	Gly	Lys	Val	Met	Ala
1970						1975					1980			
Ser	Met	Phe	Tyr	Glu	Val	Ser	Thr	Arg	Thr	Ser	Ser	Ser	Phe	Ala
1985						1990					1995			
Ala	Ala	Met	Ala	Arg	Leu	Gly	Gly	Ala	Val	Leu	Ser	Phe	Ser	Glu
2000						2005					2010			
Ala	Thr	Ser	Ser	Val	Gln	Lys	Gly	Glu	Ser	Leu	Ala	Asp	Ser	Val
2015						2020					2025			
Gln	Thr	Met	Ser	Cys	Tyr	Ala	Asp	Val	Val	Val	Leu	Arg	His	Pro
2030						2035					2040			
Gln	Pro	Gly	Ala	Val	Glu	Leu	Ala	Ala	Lys	His	Cys	Arg	Arg	Pro
2045						2050					2055			

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Val Ile Asn Ala Gly Asp Gly Val Gly Glu His Pro Thr Gln Ala
 2060 2065 2070
 Leu Leu Asp Ile Phe Thr Ile Arg Glu Glu Leu Gly Thr Val Asn
 2075 2080 2085
 Gly Met Thr Ile Thr Met Val Gly Asp Leu Lys His Gly Arg Thr
 2090 2095 2100
 Val His Ser Leu Ala Cys Leu Leu Thr Gln Tyr Arg Val Ser Leu
 2105 2110 2115
 Arg Tyr Val Ala Pro Pro Ser Leu Arg Met Pro Pro Thr Val Arg
 2120 2125 2130
 Ala Phe Val Ala Ser Arg Gly Thr Lys Gln Glu Glu Phe Glu Ser
 2135 2140 2145
 Ile Glu Glu Ala Leu Pro Asp Thr Asp Val Leu Tyr Met Thr Arg
 2150 2155 2160
 Ile Gln Lys Glu Arg Phe Gly Ser Thr Gln Glu Tyr Glu Ala Cys
 2165 2170 2175
 Phe Gly Gln Phe Ile Leu Thr Pro His Ile Met Thr Arg Ala Lys
 2180 2185 2190
 Lys Lys Met Val Val Met His Pro Met Pro Arg Val Asn Glu Ile
 2195 2200 2205
 Ser Val Glu Val Asp Ser Asp Pro Arg Ala Ala Tyr Phe Arg Gln
 2210 2215 2220
 Ala Glu Asn Gly Met Tyr Ile Arg Met Ala Leu Leu Ala Thr Val
 2225 2230 2235
 Leu Gly Arg Phe
 2240
 <210> 130
 <211> 371
 <212> PRT
 <213> Homo sapien
 <400> 130
 Met Tyr Ile Cys Pro Leu Val Leu Phe Ala Ala Glu Glu Pro Lys Glu
 1 5 10 15

Lys Ser Ser Arg Lys Val Ala Glu Pro Glu Leu Met Gly Thr Pro Asp
 20 25 30

Gly Thr Cys Tyr Pro Pro Pro Pro Val Pro Arg Gln Ala Ser Pro Gln
 35 40 45

Asn Leu Gly Thr Pro Gly Leu Leu His Pro Gln Thr Ser Pro Leu Leu
 50 55 60

His Ser Leu Val Gly Gln His Ile Leu Ser Val Gln Gln Phe Thr Lys
 65 70 75 80

Asp Gln Met Ser His Leu Phe Asn Val Ala His Thr Leu Arg Met Met
 85 90 95

Val Gln Lys Glu Arg Ser Leu Asp Ile Leu Lys Gly Lys Val Met Ala
 100 105 110

Ser Met Phe Tyr Glu Val Ser Thr Arg Thr Ser Ser Ser Phe Ala Ala
 115 120 125

Ala Met Ala Arg Leu Gly Gly Ala Val Leu Ser Phe Ser Glu Ala Thr
 130 135 140

Ser Ser Val Gln Lys Gly Glu Ser Leu Ala Asp Ser Val Gln Thr Met
 145 150 155 160

Ser Cys Tyr Ala Asp Val Val Val Leu Arg His Pro Gln Pro Gly Ala
 165 170 175

Val Glu Leu Ala Ala Lys His Cys Arg Arg Pro Val Ile Asn Ala Gly
 180 185 190

Asp Gly Val Gly Glu His Pro Thr Gln Ala Leu Leu Asp Ile Phe Thr
 195 200 205

Ile Arg Glu Glu Leu Gly Thr Val Asn Gly Met Thr Ile Thr Met Val
 210 215 220

Gly Asp Leu Lys His Gly Arg Thr Val His Ser Leu Ala Cys Leu Leu
 225 230 235 240

Thr Gln Tyr Arg Val Ser Leu Arg Tyr Val Ala Pro Pro Ser Leu Arg
 245 250 255

Met Pro Pro Thr Val Arg Ala Phe Val Ala Ser Arg Gly Thr Lys Gln
 260 265 270

Glu Glu Phe Glu Ser Ile Glu Glu Ala Leu Pro Asp Thr Asp Val Leu
 275 280 285

Tyr Met Thr Arg Ile Gln Lys Glu Arg Phe Gly Ser Thr Gln Glu Tyr
 290 295 300

Glu Ala Cys Phe Gly Gln Phe Ile Leu Thr Pro His Ile Met Thr Arg
 305 310 315 320

Ala Lys Lys Lys Met Val Val Met His Pro Met Pro Arg Val Asn Glu
 325 330 335

Ile Ser Val Glu Val Asp Ser Asp Pro Arg Ala Ala Tyr Phe Arg Gln
 340 345 350

Ala Glu Asn Gly Met Tyr Ile Arg Met Ala Leu Leu Ala Thr Val Leu
 355 360 365

Gly Arg Phe
 370

<210> 131
 <211> 970
 <212> PRT
 <213> Homo sapien

<400> 131

Met Ala Gly Ala Leu Ala Gly Leu Ala Ala Gly Leu Gln Val Pro Arg
 1 5 10 15

Val Ala Pro Ser Pro Asp Ser Asp Ser Asp Thr Asp Ser Glu Asp Pro
 20 25 30

Ser Leu Arg Arg Ser Ala Gly Gly Leu Leu Arg Ser Gln Val Ile His
 35 40 45

Ser Gly His Phe Met Val Ser Ser Pro His Ser Asp Ser Leu Pro Arg
 50 55 60

Arg Arg Asp Gln Glu Gly Ser Val Gly Pro Ser Asp Phe Gly Pro Arg
 65 70 75 80

Ser Ile Asp Pro Thr Leu Thr Arg Leu Phe Glu Cys Leu Ser Leu Ala

[illegible]

Glu Asp Ala Tyr Val Gly Asn Ala Asp Met Ile Gln Pro Asp Leu Thr
 340 345 350

Pro Leu Gln Pro Ser Leu Asp Asp Phe Met Asp Ile Ser Asp Phe Phe
 355 360 365

Thr Asn Ser Arg Leu Pro Gln Pro Pro Met Pro Ser Asn Phe Pro Glu
 370 375 380

Pro Pro Ser Phe Ser Pro Val Val Asp Ser Leu Phe Ser Ser Gly Thr
 385 390 395 400

Leu Gly Pro Glu Val Pro Pro Ala Ser Ser Ala Met Thr His Leu Ser
 405 410 415

Gly His Ser Arg Leu Gln Ala Arg Asn Ser Cys Pro Gly Pro Leu Asp
 420 425 430

Ser Ser Ala Phe Leu Ser Ser Asp Phe Leu Leu Pro Glu Asp Pro Lys
 435 440 445

Pro Arg Leu Pro Pro Pro Pro Val Pro Pro Pro Leu Leu His Tyr Pro
 450 455 460

Pro Pro Ala Lys Val Pro Gly Leu Glu Pro Cys Pro Pro Pro Pro Phe
 465 470 475 480

Pro Pro Met Ala Pro Pro Thr Ala Leu Leu Gln Glu Glu Pro Leu Phe
 485 490 495

Ser Pro Arg Phe Pro Phe Pro Thr Val Pro Pro Ala Pro Gly Val Ser
 500 505 510

Pro Leu Pro Ala Pro Ala Ala Phe Pro Pro Thr Pro Gln Ser Val Pro
 515 520 525

Ser Pro Ala Pro Thr Pro Phe Pro Ile Glu Leu Leu Pro Leu Gly Tyr
 530 535 540

Ser Glu Pro Ala Phe Gly Pro Cys Phe Ser Met Pro Arg Gly Lys Pro
 545 550 555 560

Pro Ala Pro Ser Pro Arg Gly Gln Lys Ala Ser Pro Pro Thr Leu Ala
 565 570 575

Pro Ala Thr Ala Ser Pro Pro Thr Thr Ala Gly Ser Asn Asn Pro Cys
 580 585 590

Leu Thr Gln Leu Leu Thr Ala Ala Lys Pro Glu Gln Ala Leu Glu Pro
 595 600 605

Pro Leu Val Ser Ser Thr Leu Leu Arg Ser Pro Gly Ser Pro Gln Glu
 610 615 620

Thr Val Pro Glu Phe Pro Cys Thr Phe Leu Pro Pro Thr Pro Ala Pro
 625 630 635 640

Thr Pro Pro Arg Pro Pro Pro Gly Pro Ala Thr Leu Ala Pro Ser Arg
 645 650 655

Pro Leu Leu Val Pro Lys Ala Glu Arg Leu Ser Pro Pro Ala Pro Ser
 660 665 670

Gly Lys Glu Arg Gly Cys Arg Asp Trp Gly Asn Leu Gly Asp Glu Gly
 675 680 685

Lys Arg Arg Lys Lys Lys Gly Thr Gly Ser Gly Ala Arg Trp Glu Glu
 690 695 700

Gly Gly Asn Gly Asp Pro Phe Pro Trp Val Gly Leu Ser Val Gly Leu
 705 710 715 720

Ser Val Pro Thr Thr Gly Ser Glu Arg Arg Leu Ser Gly Asp Leu Ser
 725 730 735

Ser Met Pro Gly Pro Gly Thr Leu Ser Val Arg Val Ser Pro Pro Gln
 740 745 750

Pro Ile Leu Ser Arg Gly Arg Pro Asp Ser Asn Lys Thr Glu Asn Arg
 755 760 765

Arg Ile Thr His Ile Ser Ala Glu Gln Lys Arg Arg Phe Asn Ile Lys
 770 775 780

Leu Gly Phe Asp Thr Leu His Gly Leu Val Ser Thr Leu Ser Ala Gln
 785 790 795 800

Pro Ser Leu Lys Val Ser Lys Ala Thr Thr Leu Gln Lys Thr Ala Glu
 805 810 815

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Tyr Ile Leu Met Leu Gln Gln Glu Arg Ala Gly Leu Gln Glu Glu Ala
 820 825 830

Gln Gln Leu Arg Asp Glu Ile Glu Glu Leu Asn Ala Ala Ile Asn Leu
 835 840 845

Cys Gln Gln Gln Leu Pro Ala Thr Gly Val Pro Ile Thr His Gln Arg
 850 855 860

Phe Asp Gln Met Arg Asp Met Phe Asp Asp Tyr Val Arg Thr Arg Thr
 865 870 875 880

Leu His Asn Trp Lys Phe Trp Val Phe Ser Ile Leu Ile Arg Pro Leu
 885 890 895

Phe Glu Ser Phe Asn Gly Met Val Ser Thr Ala Ser Val His Thr Leu
 900 905 910

Arg Gln Thr Ser Leu Ala Trp Leu Asp Gln Tyr Cys Ser Leu Pro Ala
 915 920 925

Leu Arg Pro Thr Val Leu Asn Ser Leu Arg Gln Leu Gly Thr Ser Thr
 930 935 940

Ser Ile Leu Thr Asp Pro Gly Arg Ile Pro Glu Gln Ala Thr Arg Ala
 945 950 955 960

Val Thr Glu Gly Thr Leu Gly Lys Pro Leu
 965 970

<210> 132

<211> 719

<212> PRT

<213> Homo sapien

<400> 132

Ala Val Pro Arg Ala Ala Arg Ser Arg Asp Gln Ala Val Ala Ala Ala
 1 5 10 15

Thr Ala Met Ala Gly Ala Leu Ala Gly Leu Ala Ala Gly Leu Gln Val
 20 25 30

Pro Arg Val Ala Pro Ser Pro Asp Ser Asp Ser Asp Thr Asp Ser Glu
 35 40 45

Asp Pro Ser Leu Arg Arg Ser Ala Gly Gly Leu Leu Arg Ser Gln Val
 50 55 60

Ile His Ser Gly His Phe Met Val Ser Ser Pro His Ser Asp Ser Leu
 65 70 75 80

Pro Arg Arg Arg Asp Gln Glu Gly Ser Val Gly Pro Ser Asp Phe Gly
 85 90 95

Pro Arg Ser Ile Asp Pro Thr Leu Thr Arg Leu Phe Glu Cys Leu Ser
 100 105 110

Leu Ala Tyr Ser Gly Lys Leu Val Ser Pro Lys Trp Lys Asn Phe Lys
 115 120 125

Gly Leu Lys Leu Leu Cys Arg Asp Lys Ile Arg Leu Asn Asn Ala Ile
 130 135 140

Trp Arg Ala Trp Tyr Ile Gln Tyr Val Lys Arg Arg Lys Ser Pro Val
 145 150 155 160

Cys Gly Phe Val Thr Pro Leu Gln Gly Pro Glu Ala Asp Ala His Arg
 165 170 175

Lys Pro Glu Ala Val Val Leu Glu Gly Asn Tyr Trp Lys Arg Arg Ile
 180 185 190

Glu Val Val Met Arg Glu Tyr His Lys Trp Arg Ile Tyr Tyr Lys Lys
 195 200 205

Arg Val Ser Gly Gly Gly Pro Gly Arg Pro Gln Ser Phe Pro Pro Ala
 210 215 220

Ala Ala Gly Tyr Arg Pro Pro Arg Lys Ile Pro Gly Lys Gly Ile Leu
 225 230 235 240

Thr Pro Glu Leu Ala Pro Leu Gly Pro Ser Ile Gln Ser Arg Ala Asp
 245 250 255

Ser Ala Thr Val Trp Pro Gln Arg Leu Leu Ala Ala Ser Leu Pro Arg
 260 265 270

Gly Arg Leu Arg Lys Pro Ser Arg Glu Asp Asp Leu Leu Ala Pro Lys
 275 280 285

Gln Ala Glu Gly Arg Trp Pro Pro Pro Glu Gln Trp Cys Lys Gln Leu
 290 295 300

Phe Ser Ser Val Val Pro Val Leu Leu Gly Asp Pro Glu Glu Glu Pro
 305 310 315 320
 Gly Gly Arg Gln Leu Leu Asp Leu Asn Cys Phe Leu Ser Asp Ile Ser
 325 330 335
 Asp Thr Leu Phe Thr Met Thr Gln Ser Gly Pro Ser Pro Leu Gln Leu
 340 345 350
 Pro Pro Glu Asp Ala Tyr Val Gly Asn Ala Asp Met Ile Gln Pro Asp
 355 360 365
 Leu Thr Pro Leu Gln Pro Ser Leu Asp Asp Phe Met Asp Ile Ser Asp
 370 375 380
 Phe Phe Thr Asn Ser Arg Leu Pro Gln Pro Pro Met Pro Ser Asn Phe
 385 390 395 400
 Pro Glu Pro Pro Ser Phe Ser Pro Val Val Asp Ser Leu Phe Ser Ser
 405 410 415
 Gly Thr Leu Gly Pro Glu Val Pro Pro Ala Ser Ser Ala Met Thr His
 420 425 430
 Leu Ser Gly His Ser Arg Leu Gln Ala Arg Asn Ser Cys Pro Gly Pro
 435 440 445
 Leu Asp Ser Ser Ala Phe Leu Ser Ser Asp Phe Leu Leu Pro Glu Asp
 450 455 460
 Pro Lys Pro Arg Leu Pro Pro Pro Pro Val Pro Pro Pro Leu Leu His
 465 470 475 480
 Tyr Pro Pro Pro Ala Lys Val Pro Gly Leu Glu Pro Cys Pro Pro Pro
 485 490 495
 Pro Phe Pro Pro Met Ala Pro Pro Thr Ala Leu Leu Gln Glu Glu Pro
 500 505 510
 Leu Phe Ser Pro Arg Phe Pro Phe Pro Thr Val Pro Pro Ala Pro Gly
 515 520 525
 Val Ser Pro Leu Pro Ala Pro Ala Ala Phe Pro Pro Thr Pro Gln Ser
 530 535 540

Val Pro Ser Pro Ala Pro Thr Pro Phe Pro Ile Glu Leu Leu Pro Leu
545 550 555 560

Gly Tyr Ser Glu Pro Ala Phe Gly Pro Cys Phe Ser Met Pro Arg Gly
565 570 575

Lys Pro Pro Ala Pro Ser Pro Arg Gly Gln Lys Ala Ser Pro Pro Thr
580 585 590

Leu Ala Pro Ala Thr Ala Ser Pro Pro Thr Thr Ala Gly Ser Asn Asn
595 600 605

Pro Cys Leu Thr Gln Leu Leu Thr Ala Ala Lys Pro Glu Gln Ala Leu
610 615 620

Glu Pro Pro Leu Val Ser Ser Thr Leu Leu Arg Ser Pro Gly Ser Pro
625 630 635 640

Gln Glu Thr Val Pro Glu Phe Pro Cys Thr Phe Leu Pro Pro Thr Pro
645 650 655

Ala Pro Thr Pro Pro Arg Pro Pro Pro Gly Pro Ala Thr Leu Ala Pro
660 665 670

Ser Arg Pro Leu Leu Val Pro Lys Ala Glu Arg Leu Ser Pro Pro Ala
675 680 685

Pro Ser Gly Lys Glu Arg Gly Cys Arg Asp Trp Gly Asn Leu Gly Asp
690 695 700

Glu Gly Lys Arg Arg Lys Lys Lys Gly Thr Gly Ser Gly Ala Arg
705 710 715

<210> 133
<211> 629
<212> PRT
<213> Homo sapien

<400> 133

Met Ala Val Pro Trp Glu Gln Ala Ser Leu Gly Gly Gln Arg Pro Cys
1 5 10 15

Leu Gly Thr Gln Arg Pro Ala Thr Asp Phe Phe Thr Asn Ser Arg Leu
20 25 30

Pro Gln Pro Pro Met Pro Ser Asn Phe Pro Glu Pro Pro Ser Phe Ser
35 40 45

Pro Val Val Asp Ser Leu Phe Ser Ser Gly Thr Leu Gly Pro Glu Val
 50 55 60

Pro Pro Ala Ser Ser Ala Met Thr His Leu Ser Gly His Ser Arg Leu
 65 70 75 80

Gln Ala Arg Asn Ser Cys Pro Gly Pro Leu Asp Ser Ser Ala Phe Leu
 85 90 95

Ser Ser Asp Phe Leu Leu Pro Glu Asp Pro Lys Pro Arg Leu Pro Pro
 100 105 110

Pro Pro Val Pro Pro Pro Leu Leu His Tyr Pro Pro Pro Ala Lys Val
 115 120 125

Pro Gly Leu Glu Pro Cys Pro Pro Pro Pro Phe Pro Pro Met Ala Pro
 130 135 140

Pro Thr Ala Leu Leu Gln Glu Glu Pro Leu Phe Ser Pro Arg Phe Pro
 145 150 155 160

Phe Pro Thr Val Pro Pro Ala Pro Gly Val Ser Pro Leu Pro Ala Pro
 165 170 175

Ala Ala Phe Pro Pro Thr Pro Gln Ser Val Pro Ser Pro Ala Pro Thr
 180 185 190

Pro Phe Pro Ile Glu Leu Leu Pro Leu Gly Tyr Ser Glu Pro Ala Phe
 195 200 205

Gly Pro Cys Phe Ser Met Pro Arg Gly Lys Pro Pro Ala Pro Ser Pro
 210 215 220

Arg Gly Gln Lys Ala Ser Pro Pro Thr Leu Ala Pro Ala Thr Ala Ser
 225 230 235 240

Pro Pro Thr Thr Ala Gly Ser Asn Asn Pro Cys Leu Thr Gln Leu Leu
 245 250 255

Thr Ala Ala Lys Pro Glu Gln Ala Leu Glu Pro Pro Leu Val Ser Ser
 260 265 270

Thr Leu Leu Arg Ser Pro Gly Ser Pro Gln Glu Thr Val Pro Glu Phe
 275 280 285

Pro Cys Thr Phe Leu Pro Pro Thr Pro Ala Pro Thr Pro Pro Arg Pro
 290 295 300

Pro Pro Gly Pro Ala Thr Leu Ala Pro Ser Arg Pro Leu Leu Val Pro
 305 310 315 320

Lys Ala Glu Arg Leu Ser Pro Pro Ala Pro Ser Gly Lys Glu Arg Gly
 325 330 335

Cys Arg Asp Trp Gly Asn Leu Gly Asp Glu Gly Lys Arg Arg Lys Lys
 340 345 350

Lys Gly Thr Gly Ser Gly Ala Arg Gly Glu Glu Gly Gly Asn Gly Asp
 355 360 365

Pro Phe Pro Trp Val Gly Leu Ser Val Gly Leu Ser Val Pro Thr Thr
 370 375 380

Gly Ser Glu Arg Arg Leu Ser Gly Asp Leu Ser Ser Met Pro Gly Pro
 385 390 395 400

Gly Thr Leu Ser Val Arg Val Ser Pro Pro Gln Pro Ile Leu Ser Arg
 405 410 415

Gly Arg Pro Asp Ser Asn Lys Thr Glu Asn Arg Arg Ile Thr His Ile
 420 425 430

Ser Ala Glu Gln Lys Arg Arg Phe Asn Ile Lys Leu Gly Phe Asp Thr
 435 440 445

Leu His Gly Leu Val Ser Thr Leu Ser Ala Gln Pro Ser Leu Lys Val
 450 455 460

Ser Lys Ala Thr Thr Leu Gln Lys Thr Ala Glu Tyr Ile Leu Met Leu
 465 470 475 480

Gln Gln Glu Arg Ala Gly Leu Gln Glu Glu Ala Gln Gln Leu Arg Asp
 485 490 495

Glu Ile Glu Glu Leu Asn Ala Ala Ile Asn Leu Cys Gln Gln Gln Leu
 500 505 510

Pro Ala Thr Gly Val Pro Ile Thr His Gln Arg Phe Asp Gln Met Arg
 515 520 525

Asp Met Phe Asp Asp Tyr Val Arg Thr Arg Thr Leu His Asn Trp Lys
 530 535 540

Phe Trp Val Phe Ser Ile Leu Ile Arg Pro Leu Phe Glu Ser Phe Asn
 545 550 555 560

Gly Met Val Ser Thr Ala Ser Val His Thr Leu Arg Gln Thr Ser Leu
 565 570 575

Ala Trp Leu Asp Gln Tyr Cys Ser Leu Pro Ala Leu Arg Pro Thr Val
 580 585 590

Leu Asn Ser Leu Arg Gln Leu Gly Thr Ser Thr Ser Ile Leu Thr Asp
 595 600 605

Pro Gly Arg Ile Pro Glu Gln Ala Thr Arg Ala Val Thr Glu Gly Thr
 610 615 620

Leu Gly Lys Pro Leu
 625

<210> 134
 <211> 382
 <212> PRT
 <213> Homo sapien

<400> 134

Gly Thr Thr Pro Thr Pro Val Pro Val Pro Gly Gly Gly Gly Gly Cys
 1 5 10 15

Pro Gly Ala Glu Val Cys Met Ala Val Pro Trp Glu Gln Ala Ser Leu
 20 25 30

Gly Gly Gln Arg Pro Cys Leu Gly Thr Gln Arg Pro Ala Thr Asp Phe
 35 40 45

Phe Thr Asn Ser Arg Leu Pro Gln Pro Pro Met Pro Ser Asn Phe Pro
 50 55 60

Glu Pro Pro Ser Phe Ser Pro Val Val Asp Ser Leu Phe Ser Ser Gly
 65 70 75 80

Thr Leu Gly Pro Glu Val Pro Pro Ala Ser Ser Ala Met Thr His Leu
 85 90 95

Ser Gly His Ser Arg Leu Gln Ala Arg Asn Ser Cys Pro Gly Pro Leu
 100 105 110

Asp Ser Ser Ala Phe Leu Ser Ser Asp Phe Leu Leu Pro Glu Asp Pro
 115 120 125

Lys Pro Arg Leu Pro Pro Pro Pro Val Pro Pro Pro Leu Leu His Tyr
 130 135 140

Pro Pro Pro Ala Lys Val Pro Gly Leu Glu Pro Cys Pro Pro Pro Pro
 145 150 155 160

Phe Pro Pro Met Ala Pro Pro Thr Ala Leu Leu Gln Glu Glu Pro Leu
 165 170 175

Phe Ser Pro Arg Phe Pro Phe Pro Thr Val Pro Pro Ala Pro Gly Val
 180 185 190

Ser Pro Leu Pro Ala Pro Ala Ala Phe Pro Pro Thr Pro Gln Ser Val
 195 200 205

Pro Ser Pro Ala Pro Thr Pro Phe Pro Ile Glu Leu Leu Pro Leu Gly
 210 215 220

Tyr Ser Glu Pro Ala Phe Gly Pro Cys Phe Ser Met Pro Arg Gly Lys
 225 230 235 240

Pro Pro Ala Pro Ser Pro Arg Gly Gln Lys Ala Ser Pro Pro Thr Leu
 245 250 255

Ala Pro Ala Thr Ala Ser Pro Pro Thr Thr Ala Gly Ser Asn Asn Pro
 260 265 270

Cys Leu Thr Gln Leu Leu Thr Ala Ala Lys Pro Glu Gln Ala Leu Glu
 275 280 285

Pro Pro Leu Val Ser Ser Thr Leu Leu Arg Ser Pro Gly Ser Pro Gln
 290 295 300

Glu Thr Val Pro Glu Phe Pro Cys Thr Phe Leu Pro Pro Thr Pro Ala
 305 310 315 320

Pro Thr Pro Pro Arg Pro Pro Pro Gly Pro Ala Thr Leu Ala Pro Ser
 325 330 335

Arg Pro Leu Leu Val Pro Lys Ala Glu Arg Leu Ser Pro Pro Ala Pro
 340 345 350

Ser Gly Lys Glu Arg Gly Cys Arg Asp Trp Gly Asn Leu Gly Asp Glu
 355 360 365

Gly Lys Arg Arg Lys Lys Lys Gly Thr Gly Ser Gly Ala Arg
 370 375 380

<210> 135
 <211> 1009
 <212> PRT
 <213> Homo sapien

<400> 135

Met Ala Gly Ala Leu Ala Gly Leu Ala Ala Gly Leu Gln Val Pro Arg
 1 5 10 15

Val Ala Pro Ser Pro Asp Ser Asp Ser Asp Thr Asp Ser Glu Asp Pro
 20 25 30

Ser Leu Arg Arg Ser Ala Gly Gly Leu Leu Arg Ser Gln Val Ile His
 35 40 45

Ser Gly His Phe Met Val Ser Ser Pro His Ser Asp Ser Leu Pro Arg
 50 55 60

Arg Arg Asp Gln Glu Gly Ser Val Gly Pro Ser Asp Phe Gly Pro Arg
 65 70 75 80

Ser Ile Asp Pro Thr Leu Thr Arg Leu Phe Glu Cys Leu Ser Leu Ala
 85 90 95

Tyr Ser Gly Lys Leu Val Ser Pro Lys Trp Lys Asn Phe Lys Gly Leu
 100 105 110

Lys Leu Leu Cys Arg Asp Lys Ile Arg Leu Asn Asn Ala Ile Trp Arg
 115 120 125

Ala Trp Tyr Ile Gln Tyr Val Lys Arg Arg Lys Ser Pro Val Cys Gly
 130 135 140

Phe Val Thr Pro Leu Gln Gly Pro Glu Ala Asp Ala His Arg Lys Pro
 145 150 155 160

Glu Ala Val Val Leu Glu Gly Asn Tyr Trp Lys Arg Arg Ile Glu Val
 165 170 175

Val Met Arg Glu Tyr His Lys Trp Arg Ile Tyr Tyr Lys Lys Arg Val

180	185	190
Ser Gly Gly Gly Pro Gly Arg	Pro Gln Ser Phe Pro	Pro Ala Ala Ala
195	200	205
Gly Tyr Arg Pro Pro Arg Lys	Ile Pro Gly Lys Gly	Ile Leu Thr Pro
210	215	220
Glu Leu Ala Pro Leu Gly Pro	Ser Ile Gln Ser Arg Ala	Asp Ser Ala
225	230	235
Thr Val Trp Pro Gln Arg Leu	Leu Ala Ala Ser Leu Pro	Arg Gly Arg
245	250	255
Val Ser Ser Cys Gly Lys Trp	Gly Ile Ser Ser Leu Val	Ser Arg Gly
260	265	270
Asp Phe Gly Gly Lys Val Met	Glu Asp Gly Ala Lys Gly	Ser Gly Val
275	280	285
Gln Leu Cys Val Ser Leu Gln	Leu Arg Lys Pro Ser Arg	Glu Asp Asp
290	295	300
Leu Leu Ala Pro Lys Gln Ala	Glu Gly Arg Trp Pro Pro	Pro Glu Gln
305	310	315
Trp Cys Lys Gln Leu Phe Ser	Ser Val Val Pro Val Leu	Leu Gly Asp
325	330	335
Pro Glu Glu Glu Pro Gly Gly	Arg Gln Leu Leu Asp Leu	Asn Cys Phe
340	345	350
Leu Ser Asp Ile Ser Asp Thr	Leu Phe Thr Met Thr Gln	Ser Gly Pro
355	360	365
Ser Pro Leu Gln Leu Pro Pro	Glu Asp Ala Tyr Val Gly	Asn Ala Asp
370	375	380
Met Ile Gln Pro Asp Leu Thr	Pro Leu Gln Pro Ser Leu	Asp Asp Phe
385	390	395
Met Asp Ile Ser Asp Phe Phe	Thr Asn Ser Arg Leu Pro	Gln Pro Pro
405	410	415
Met Pro Ser Asn Phe Pro Glu	Pro Pro Ser Phe Ser Pro	Val Val Asp
420	425	430

Ser Leu Phe Ser Ser Gly Thr Leu Gly Pro Glu Val Pro Pro Ala Ser
 435 440 445

Ser Ala Met Thr His Leu Ser Gly His Ser Arg Leu Gln Ala Arg Asn
 450 455 460

Ser Cys Pro Gly Pro Leu Asp Ser Ser Ala Phe Leu Ser Ser Asp Phe
 465 470 475 480

Leu Leu Pro Glu Asp Pro Lys Pro Arg Leu Pro Pro Pro Pro Val Pro
 485 490 495

Pro Pro Leu Leu His Tyr Pro Pro Pro Ala Lys Val Pro Gly Leu Glu
 500 505 510

Pro Cys Pro Pro Pro Pro Phe Pro Pro Met Ala Pro Pro Thr Ala Leu
 515 520 525

Leu Gln Glu Glu Pro Leu Phe Ser Pro Arg Phe Pro Phe Pro Thr Val
 530 535 540

Pro Pro Ala Pro Gly Val Ser Pro Leu Pro Ala Pro Ala Ala Phe Pro
 545 550 555 560

Pro Thr Pro Gln Ser Val Pro Ser Pro Ala Pro Thr Pro Phe Pro Ile
 565 570 575

Glu Leu Leu Pro Leu Gly Tyr Ser Glu Pro Ala Phe Gly Pro Cys Phe
 580 585 590

Ser Met Pro Arg Gly Lys Pro Pro Ala Pro Ser Pro Arg Gly Gln Lys
 595 600 605

Ala Ser Pro Pro Thr Leu Ala Pro Ala Thr Ala Ser Pro Pro Thr Thr
 610 615 620

Ala Gly Ser Asn Asn Pro Cys Leu Thr Gln Leu Leu Thr Ala Ala Lys
 625 630 635 640

Pro Glu Gln Ala Leu Glu Pro Pro Leu Val Ser Ser Thr Leu Leu Arg
 645 650 655

Ser Pro Gly Ser Pro Gln Glu Thr Val Pro Glu Phe Pro Cys Thr Phe
 660 665 670

Leu Pro Pro Thr Pro Ala Pro Thr Pro Pro Arg Pro Pro Pro Gly Pro
675 680 685

Ala Thr Leu Ala Pro Ser Arg Pro Leu Leu Val Pro Lys Ala Glu Arg
690 695 700

Leu Ser Pro Pro Ala Pro Ser Gly Lys Glu Arg Gly Cys Arg Asp Trp
705 710 715 720

Gly Asn Leu Gly Asp Glu Gly Lys Arg Arg Lys Lys Lys Gly Thr Gly
725 730 735

Ser Gly Ala Arg Trp Glu Glu Gly Gly Asn Gly Asp Pro Phe Pro Trp
740 745 750

Val Gly Leu Ser Val Gly Leu Ser Val Pro Thr Thr Gly Ser Glu Arg
755 760 765

Arg Leu Ser Gly Asp Leu Ser Ser Met Pro Gly Pro Gly Thr Leu Ser
770 775 780

Val Arg Val Ser Pro Pro Gln Pro Ile Leu Ser Arg Gly Arg Pro Asp
785 790 795 800

Ser Asn Lys Thr Glu Asn Arg Arg Ile Thr His Ile Ser Ala Glu Gln
805 810 815

Lys Arg Arg Phe Asn Ile Lys Leu Gly Phe Asp Thr Leu His Gly Leu
820 825 830

Val Ser Thr Leu Ser Ala Gln Pro Ser Leu Lys Val Ser Lys Ala Thr
835 840 845

Thr Leu Gln Lys Thr Ala Glu Tyr Ile Leu Met Leu Gln Gln Glu Arg
850 855 860

Ala Gly Leu Gln Glu Glu Ala Gln Gln Leu Arg Asp Glu Ile Glu Glu
865 870 875 880

Leu Asn Ala Ala Ile Asn Leu Cys Gln Gln Gln Leu Pro Ala Thr Gly
885 890 895

Val Pro Ile Thr His Gln Arg Phe Asp Gln Met Arg Asp Met Phe Asp
900 905 910

Asp Tyr Val Arg Thr Arg Thr Leu His Asn Trp Lys Phe Trp Val Phe
 915 920 925

Ser Ile Leu Ile Arg Pro Leu Phe Glu Ser Phe Asn Gly Met Val Ser
 930 935 940

Thr Ala Ser Val His Thr Leu Arg Gln Thr Ser Leu Ala Trp Leu Asp
 945 950 955 960

Gln Tyr Cys Ser Leu Pro Ala Leu Arg Pro Thr Val Leu Asn Ser Leu
 965 970 975

Arg Gln Leu Gly Thr Ser Thr Ser Ile Leu Thr Asp Pro Gly Arg Ile
 980 985 990

Pro Glu Gln Ala Thr Arg Ala Val Thr Glu Gly Thr Leu Gly Lys Pro
 995 1000 1005

Leu

<210> 136
 <211> 469
 <212> PRT
 <213> Homo sapien

<400> 136

Arg Arg Leu Trp Gly Glu Ser Asp Gly Gly Trp Gly Lys Gly Ser Gly
 1 5 10 15

Val Gln Leu Cys Val Ser Leu Gln Leu Arg Lys Pro Ser Arg Glu Asp
 20 25 30

Asp Leu Leu Ala Pro Lys Gln Ala Glu Gly Arg Trp Pro Pro Pro Glu
 35 40 45

Gln Trp Cys Lys Gln Leu Phe Ser Ser Val Val Pro Val Leu Leu Gly
 50 55 60

Asp Pro Glu Glu Glu Pro Gly Gly Arg Gln Leu Leu Asp Leu Asn Cys
 65 70 75 80

Phe Leu Ser Asp Ile Ser Asp Thr Leu Phe Thr Met Thr Gln Ser Gly
 85 90 95

Pro Ser Pro Leu Gln Leu Pro Pro Glu Asp Ala Tyr Val Gly Asn Ala
 100 105 110

Asp Met Ile Gln Pro Asp Leu Thr Pro Leu Gln Pro Ser Leu Asp Asp
 115 120 125

Phe Met Asp Ile Ser Asp Phe Phe Thr Asn Ser Arg Leu Pro Gln Pro
 130 135 140

Pro Met Pro Ser Asn Phe Pro Glu Pro Pro Ser Phe Ser Pro Val Val
 145 150 155 160

Asp Ser Leu Phe Ser Ser Gly Thr Leu Gly Pro Glu Val Pro Pro Ala
 165 170 175

Ser Ser Ala Met Thr His Leu Ser Gly His Ser Arg Leu Gln Ala Arg
 180 185 190

Asn Ser Cys Pro Gly Pro Leu Asp Ser Ser Ala Phe Leu Ser Ser Asp
 195 200 205

Phe Leu Leu Pro Glu Asp Pro Lys Pro Arg Leu Pro Pro Pro Pro Val
 210 215 220

Pro Pro Pro Leu Leu His Tyr Pro Pro Pro Ala Lys Val Pro Gly Leu
 225 230 235 240

Glu Pro Cys Pro Pro Pro Pro Phe Pro Pro Met Ala Pro Pro Thr Ala
 245 250 255

Leu Leu Gln Glu Glu Pro Leu Phe Ser Pro Arg Phe Pro Phe Pro Thr
 260 265 270

Val Pro Pro Ala Pro Gly Val Ser Pro Leu Pro Ala Pro Ala Ala Phe
 275 280 285

Pro Pro Thr Pro Gln Ser Val Pro Ser Pro Ala Pro Thr Pro Phe Pro
 290 295 300

Ile Glu Leu Leu Pro Leu Gly Tyr Ser Glu Pro Ala Phe Gly Pro Cys
 305 310 315 320

Phe Ser Met Pro Arg Gly Lys Pro Pro Ala Pro Ser Pro Arg Gly Gln
 325 330 335

Lys Ala Ser Pro Pro Thr Leu Ala Pro Ala Thr Ala Ser Pro Pro Thr
 340 345 350

Thr Ala Gly Ser Asn Asn Pro Cys Leu Thr Gln Leu Leu Thr Ala Ala
 355 360 365

Lys Pro Glu Gln Ala Leu Glu Pro Pro Leu Val Ser Ser Thr Leu Leu
 370 375 380

Arg Ser Pro Gly Ser Pro Gln Glu Thr Val Pro Glu Phe Pro Cys Thr
 385 390 395 400

Phe Leu Pro Pro Thr Pro Ala Pro Thr Pro Pro Arg Pro Pro Pro Gly
 405 410 415

Pro Ala Thr Leu Ala Pro Ser Arg Pro Leu Leu Val Pro Lys Ala Glu
 420 425 430

Arg Leu Ser Pro Pro Ala Pro Ser Gly Lys Glu Arg Gly Cys Arg Asp
 435 440 445

Trp Gly Asn Leu Gly Asp Glu Gly Lys Arg Arg Lys Lys Lys Gly Thr
 450 455 460

Gly Ser Gly Ala Arg
 465

<210> 137
 <211> 191
 <212> PRT
 <213> Homo sapien

<400> 137

Val Leu Pro Cys Pro Gly Pro Gly Pro Leu Val Thr Ser Cys Phe Pro
 1 5 10 15

Pro Thr Val Ser Pro Tyr Pro His Pro Gly Pro Gly Trp Ser Pro Ala
 20 25 30

His Arg Gly Ala Thr Gly Gly Asn Gly Pro Asp Ser Gly Ala Thr Asp
 35 40 45

Ser Pro Ala Val Gly Asp Asp Asp Arg Glu Gln Val Ala Gly Pro Lys
 50 55 60

Gly Lys Ala Pro Pro Val Pro Ala Pro Ala Arg Glu Ser Gly Asn Arg
 65 70 75 80

Ser Ala Arg Pro Leu His Ser Leu Ser Val Leu Ala Phe Asp Gln Glu

	85		90		95
Arg Leu Glu Arg Lys Ile Leu Ala Leu Arg Gln Ala Arg Arg Pro Val	100		105		110
Pro Pro Glu Val Ala Gln Gln Tyr Gln Asp Ile Met Gln Arg Ser Gln	115		120		125
Trp Gln Arg Ala Gln Leu Glu Gln Gly Gly Val Gly Ile Arg Arg Glu	130		135		140
Tyr Ala Ala Gln Leu Glu Arg Gln Leu Gln Phe Tyr Thr Glu Ala Ala	145		150		155
Arg Arg Leu Gly Asn Asp Gly Ser Arg Asp Ala Ala Lys Glu Ala Leu	165		170		175
Tyr Arg Arg Asn Leu Val Glu Ser Glu Leu Gln Arg Leu Arg Arg	180		185		190
<210> 138					
<211> 117					
<212> PRT					
<213> Homo sapien					
<400> 138					
Glu Gly Leu Gly Asp Gly His Leu Glu Gly Glu Gly Leu Gly Asp Gly	1		5		10
His Leu Glu Gly Glu Gly Leu Gly Asp Gly His Leu Glu Gly Glu Gly	20		25		30
Leu Gly Asp Gly His Leu Ala Gly Asp Gly Leu Gly Asp Gly His Ser	35		40		45
Pro Gly Gly Leu Trp Ala Val Arg Pro His Pro Lys Pro Pro Phe Pro	50		55		60
Arg His Pro Phe Ser Glu Tyr Ala Ala Gln Leu Glu Arg Gln Leu Gln	65		70		75
Phe Tyr Thr Glu Ala Ala Arg Arg Leu Gly Asn Asp Gly Ser Arg Asp	85		90		95
Ala Ala Lys Glu Ala Leu Tyr Arg Arg Asn Leu Val Glu Ser Glu Leu	100		105		110

Gln Arg Leu Arg Arg
115

<210> 139
<211> 165
<212> PRT
<213> Homo sapien

<400> 139

Arg Val Ser Cys Ser Gly Ser Ala Gly Glu Glu Pro Met Gly Arg Ala
1 5 10 15

Ala Pro Arg Lys Arg Ala Ala Gly Pro Asp Thr Gly Lys Ser Arg His
20 25 30

Ser His Glu Pro Asp Lys Gln Thr Ile Ser Gly Gln Ser Val Leu Asp
35 40 45

Ser Pro Leu Ile Arg Ala Pro Ser Pro Ala Arg Ala Ser Val Ala Ala
50 55 60

Gly Val Gly Asn His Ala Cys Gln Pro Val Cys Ala Pro His Pro Gly
65 70 75 80

Leu Ala Gly Pro Trp Arg Val Leu Phe Ala Gln Pro Arg Gly Val Arg
85 90 95

Pro Leu Ala Arg Pro Gly Ala Gly Arg Val Ala Gly Ala Lys Pro Arg
100 105 110

Gly Pro Leu Gln Ala Leu Tyr Phe Leu Phe Leu Pro Ser Leu Asn Pro
115 120 125

Lys Ala Leu Leu His Pro Lys Glu Ala Thr Glu Ala Gly Arg Ala Thr
130 135 140

Leu Ser Pro Gln Gly Arg Arg Pro Gly Pro Ala Gly Ser Pro Gly Pro
145 150 155 160

Ala His Gly Ile Lys
165

<210> 140
<211> 146
<212> PRT
<213> Homo sapien

<400> 140

Glu Gly Leu Gly Asp Gly His Leu Glu Gly Glu Gly Leu Gly Asp Gly
 1 5 10 15

His Leu Glu Gly Glu Gly Leu Gly Asp Gly His Leu Glu Gly Glu Gly
 20 25 30

Leu Gly Asp Gly His Leu Ala Gly Asp Gly Leu Gly Asp Gly His Ser
 35 40 45

Pro Gly Gly Leu Trp Ala Val Arg Pro His Pro Lys Pro Pro Phe Pro
 50 55 60

Arg His Pro Phe Ser Glu Tyr Ala Ala Gln Leu Glu Arg Gln Leu Gln
 65 70 75 80

Phe Tyr Thr Glu Ala Ala Arg Arg Leu Gly Asn Asp Gly Ser Arg Val
 85 90 95

Ser Trp Ser Arg Ala Gly Trp Ala Leu Gly Ser Gly Gln Gly Gly Ala
 100 105 110

Cys Arg Asp Tyr Leu Leu Asn Ala His Pro Pro Gln Asp Ala Ala Lys
 115 120 125

Glu Ala Leu Tyr Arg Arg Asn Leu Val Glu Ser Glu Leu Gln Arg Leu
 130 135 140

Arg Arg
 145

<210> 141

<211> 165

<212> PRT

<213> Homo sapien

<400> 141

Arg Val Ser Cys Ser Gly Ser Ala Gly Glu Glu Pro Met Gly Arg Ala
 1 5 10 15

Ala Pro Arg Lys Arg Ala Ala Gly Pro Asp Thr Gly Lys Ser Arg His
 20 25 30

Ser His Glu Pro Asp Lys Gln Thr Ile Ser Gly Gln Ser Val Leu Asp
 35 40 45

Ser Pro Leu Ile Arg Ala Pro Ser Pro Ala Arg Ala Ser Val Ala Ala
50 55 60

Gly Val Gly Asn His Ala Cys Gln Pro Val Cys Ala Pro His Pro Gly
65 70 75 80

Leu Ala Gly Pro Trp Arg Val Leu Phe Ala Gln Pro Arg Gly Val Arg
85 90 95

Pro Leu Ala Arg Pro Gly Ala Gly Arg Val Ala Gly Ala Lys Pro Arg
100 105 110

Gly Pro Leu Gln Ala Leu Tyr Phe Leu Phe Leu Pro Ser Leu Asn Pro
115 120 125

Lys Ala Leu Leu His Pro Lys Glu Ala Thr Glu Ala Gly Arg Ala Thr
130 135 140

Leu Ser Pro Gln Gly Arg Arg Pro Gly Pro Ala Gly Ser Pro Gly Pro
145 150 155 160

Ala His Gly Ile Lys
165

<210> 142
<211> 636
<212> PRT
<213> Homo sapien

<400> 142

Met Thr Ser Ser Gly Pro Gly Pro Arg Phe Leu Leu Leu Leu Pro Leu
1 5 10 15

Leu Leu Pro Pro Ala Ala Ser Ala Ser Asp Arg Pro Arg Gly Arg Asp
20 25 30

Pro Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu
35 40 45

Thr Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr
50 55 60

Thr Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val
65 70 75 80

Ala Arg Thr Val Gly Gly Gly Gln Lys Val Arg Trp Leu Lys Lys Glu
85 90 95

Met Glu Lys Tyr Ala Asp Arg Glu Asp Met Ile Ile Met Phe Val Asp
 100 105 110

Ser Tyr Asp Val Ile Leu Ala Gly Ser Pro Thr Glu Leu Leu Lys Lys
 115 120 125

Phe Val Gln Ser Gly Ser Arg Leu Leu Phe Ser Ala Glu Ser Phe Cys
 130 135 140

Trp Pro Glu Trp Gly Leu Ala Glu Gln Tyr Pro Glu Val Gly Thr Gly
 145 150 155 160

Lys Arg Phe Leu Asn Ser Gly Gly Phe Ile Gly Phe Ala Thr Thr Ile
 165 170 175

His Gln Ile Val Arg Gln Trp Lys Tyr Lys Asp Asp Asp Asp Asp Gln
 180 185 190

Leu Phe Tyr Thr Arg Leu Tyr Leu Asp Pro Gly Leu Arg Glu Lys Leu
 195 200 205

Ser Leu Asn Leu Asp His Lys Ser Arg Ile Phe Gln Asn Leu Asn Gly
 210 215 220

Ala Leu Asp Glu Val Val Leu Lys Phe Asp Arg Asn Arg Val Arg Ile
 225 230 235 240

Arg Asn Val Ala Tyr Asp Thr Leu Pro Ile Val Val His Gly Asn Gly
 245 250 255

Pro Thr Lys Leu Gln Leu Asn Tyr Leu Gly Asn Tyr Val Pro Asn Gly
 260 265 270

Trp Thr Pro Glu Gly Gly Cys Gly Phe Cys Asn Gln Asp Arg Arg Thr
 275 280 285

Leu Pro Gly Gly Gln Pro Pro Pro Arg Val Phe Leu Ala Val Phe Val
 290 295 300

Glu Gln Pro Thr Pro Phe Leu Pro Arg Phe Leu Gln Arg Leu Leu Leu
 305 310 315 320

Leu Asp Tyr Pro Pro Asp Arg Val Thr Leu Phe Leu His Asn Asn Glu
 325 330 335

Val Phe His Glu Pro His Ile Ala Asp Ser Trp Pro Gln Leu Gln Asp
 340 345 350

His Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro
 355 360 365

Gly Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu
 370 375 380

Cys Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu
 385 390 395 400

Gln Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro
 405 410 415

Met Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu
 420 425 430

Ser Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val
 435 440 445

Gln Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala
 450 455 460

Tyr Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp
 465 470 475 480

Val Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser
 485 490 495

Phe Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe
 500 505 510

Gly Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro
 515 520 525

Asp Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr
 530 535 540

Ile His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Glu Gly Ile Val Glu
 545 550 555 560

Gln Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met
 565 570 575

Cys Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly
 580 585 590

Gly Arg His Glu Thr Ala Leu Gln Glu Cys Leu Met Pro Val Glu Leu
 595 600 605

Cys Pro Ala Val Ser Ser Ser His His Thr Ala Ser Lys Ala Ala Met
 610 615 620

Ser Ser Leu Gly Ala Ile Glu Ala Thr Gly Lys Pro
 625 630 635

<210> 143
 <211> 682
 <212> PRT
 <213> Homo sapien

<400> 143

Met Thr Ser Ser Gly Pro Gly Pro Arg Phe Leu Leu Leu Leu Pro Leu
 1 5 10 15

Leu Leu Pro Pro Ala Ala Ser Ala Ser Asp Arg Pro Arg Gly Arg Asp
 20 25 30

Pro Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu
 35 40 45

Thr Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr
 50 55 60

Thr Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val
 65 70 75 80

Ala Arg Thr Val Gly Gly Gly Gln Lys Val Arg Trp Leu Lys Lys Glu
 85 90 95

Met Glu Lys Tyr Ala Asp Arg Glu Asp Met Ile Ile Met Phe Val Asp
 100 105 110

Ser Tyr Asp Val Ile Leu Ala Gly Ser Pro Thr Glu Leu Leu Lys Lys
 115 120 125

Phe Val Gln Ser Gly Ser Arg Leu Leu Phe Ser Ala Glu Ser Phe Cys
 130 135 140

Trp Pro Glu Trp Gly Leu Ala Glu Gln Tyr Pro Glu Val Gly Thr Gly
 145 150 155 160

Lys Arg Phe Leu Asn Ser Gly Gly Phe Ile Gly Phe Ala Thr Thr Ile
 165 170 175

His Gln Ile Val Arg Gln Trp Lys Tyr Lys Asp Asp Asp Asp Gln
 180 185 190

Leu Phe Tyr Thr Arg Leu Tyr Leu Asp Pro Gly Leu Arg Glu Lys Leu
 195 200 205

Ser Leu Asn Leu Asp His Lys Ser Arg Ile Phe Gln Asn Leu Asn Gly
 210 215 220

Ala Leu Asp Glu Val Val Leu Lys Phe Asp Arg Asn Arg Val Arg Ile
 225 230 235 240

Arg Asn Val Ala Tyr Asp Thr Leu Pro Ile Val Val His Gly Asn Gly
 245 250 255

Pro Thr Lys Leu Gln Leu Asn Tyr Leu Gly Asn Tyr Val Pro Asn Gly
 260 265 270

Trp Thr Pro Glu Gly Gly Cys Gly Phe Cys Asn Gln Asp Arg Arg Thr
 275 280 285

Leu Pro Gly Gly Gln Pro Pro Pro Arg Val Phe Leu Ala Val Phe Val
 290 295 300

Glu Gln Pro Thr Pro Phe Leu Pro Arg Phe Leu Gln Arg Leu Leu Leu
 305 310 315 320

Leu Asp Tyr Pro Pro Asp Arg Val Thr Leu Phe Leu His Asn Asn Glu
 325 330 335

Val Phe His Glu Pro His Ile Ala Asp Ser Trp Pro Gln Leu Gln Asp
 340 345 350

His Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro
 355 360 365

Gly Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu
 370 375 380

Cys Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu
 385 390 395 400

Gln Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro
 405 410 415

Met Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu
 420 425 430

Ser Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val
 435 440 445

Gln Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala
 450 455 460

Tyr Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp
 465 470 475 480

Val Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser
 485 490 495

Phe Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe
 500 505 510

Gly Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro
 515 520 525

Asp Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr
 530 535 540

Ile His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Glu Gly Ile Val Glu
 545 550 555 560

Gln Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met
 565 570 575

Cys Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly
 580 585 590

Gly Arg His Glu Val Arg Ala Trp Ala Arg Arg Ala Glu Ala Phe Pro
 595 600 605

Glu Glu Glu Val Gln Asp Leu Val Asn Lys Gln Trp Asn Gln Glu Asn
 610 615 620

Gly Ser Lys Glu Gly Phe Pro Gly Gly Arg Gln Thr Leu Gly Ser Gln
 625 630 635 640

Leu His Ser Phe Met Tyr Ser Arg Asn Ile Tyr Cys Trp Ala Gln Trp
 645 650 655

Leu Met Pro Val Ile Leu Ala Leu Trp Glu Ala Glu Ala Gly Gly Leu
 660 665 670

Leu Glu Gln Gly Glu Phe Glu Ala Ser Leu
 675 680

<210> 144
 <211> 654
 <212> PRT
 <213> Homo sapien

<400> 144

Met Thr Ser Ser Gly Pro Gly Pro Arg Phe Leu Leu Leu Leu Pro Leu
 1 5 10 15

Leu Leu Pro Pro Ala Ala Ser Ala Ser Asp Arg Pro Arg Gly Arg Asp
 20 25 30

Pro Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu
 35 40 45

Thr Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr
 50 55 60

Thr Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val
 65 70 75 80

Ala Arg Thr Val Gly Gly Gly Gln Lys Val Arg Trp Leu Lys Lys Glu
 85 90 95

Met Glu Lys Tyr Ala Asp Arg Glu Asp Met Ile Ile Met Phe Val Asp
 100 105 110

Ser Tyr Asp Val Ile Leu Ala Gly Ser Pro Thr Glu Leu Leu Lys Lys
 115 120 125

Phe Val Gln Ser Gly Ser Arg Leu Leu Phe Ser Ala Glu Ser Phe Cys
 130 135 140

Trp Pro Glu Trp Gly Leu Ala Glu Gln Tyr Pro Glu Val Gly Thr Gly
 145 150 155 160

Lys Arg Phe Leu Asn Ser Gly Gly Phe Ile Gly Phe Ala Thr Thr Ile
 165 170 175

His Gln Ile Val Arg Gln Trp Lys Tyr Lys Asp Asp Asp Asp Asp Gln
 180 185 190

Leu Phe Tyr Thr Arg Leu Tyr Leu Asp Pro Gly Leu Arg Glu Lys Leu
 195 200 205

Ser Leu Asn Leu Asp His Lys Ser Arg Ile Phe Gln Asn Leu Asn Gly
 210 215 220

Ala Leu Asp Glu Val Val Leu Lys Phe Asp Arg Asn Arg Val Arg Ile
 225 230 235 240

Arg Asn Val Ala Tyr Asp Thr Leu Pro Ile Val Val His Gly Asn Gly
 245 250 255

Pro Thr Lys Leu Gln Leu Asn Tyr Leu Gly Asn Tyr Val Pro Asn Gly
 260 265 270

Trp Thr Pro Glu Gly Gly Cys Gly Phe Cys Asn Gln Asp Arg Arg Thr
 275 280 285

Leu Pro Gly Gly Gln Pro Pro Pro Arg Val Phe Leu Ala Val Phe Val
 290 295 300

Glu Gln Pro Thr Pro Phe Leu Pro Arg Phe Leu Gln Arg Leu Leu Leu
 305 310 315 320

Leu Asp Tyr Pro Pro Asp Arg Val Thr Leu Phe Leu His Asn Asn Glu
 325 330 335

Val Phe His Glu Pro His Ile Ala Asp Ser Trp Pro Gln Leu Gln Asp
 340 345 350

His Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro
 355 360 365

Gly Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu
 370 375 380

Cys Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu
 385 390 395 400

Gln Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro
 405 410 415

Met Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu
 420 425 430

Ser Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val
 435 440 445

Gln Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala
 450 455 460

Tyr Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp
 465 470 475 480

Val Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser
 485 490 495

Phe Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe
 500 505 510

Gly Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro
 515 520 525

Asp Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr
 530 535 540

Ile His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Glu Gly Ile Val Glu
 545 550 555 560

Gln Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met
 565 570 575

Cys Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly
 580 585 590

Gly Arg His Glu Trp Glu Gly Thr Asn Gly Ala Gly Pro His Met Lys
 595 600 605

Gly Gly Pro Gly Gln Val Ile Gly Ser Leu Ala Asp Asn Leu Ala Ala
 610 615 620

Thr Gly Gly Gly Lys Gly Pro Ala Lys Ser Gly Pro Asn His Gln His
 625 630 635 640

Arg Ala Arg Gly Gln Thr Gly Thr Pro Lys Gly Asp Thr Gly
 645 650

<210> 145
 <211> 669
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (613)..(613)
 <223> X=any amino acid

<400> 145

Arg Arg Ser Gln Asp Pro Gly Cys Cys Leu Gly Pro Leu Pro Thr Met
 1 5 10 15

Thr Ser Ser Gly Pro Gly Pro Arg Phe Leu Leu Leu Leu Pro Leu Leu
 20 25 30

Leu Pro Pro Ala Ala Ser Ala Ser Asp Arg Pro Arg Gly Arg Asp Pro
 35 40 45

Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu Thr
 50 55 60

Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr Thr
 65 70 75 80

Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val Ala
 85 90 95

Arg Thr Val Gly Gly Gly Gln Lys Val Arg Trp Leu Lys Lys Glu Met
 100 105 110

Glu Lys Tyr Ala Asp Arg Glu Asp Met Ile Ile Met Phe Val Asp Ser
 115 120 125

Tyr Asp Val Ile Leu Ala Gly Ser Pro Thr Glu Leu Leu Lys Lys Phe
 130 135 140

Val Gln Ser Gly Ser Arg Leu Leu Phe Ser Ala Glu Ser Phe Cys Trp
 145 150 155 160

Pro Glu Trp Gly Leu Ala Glu Gln Tyr Pro Glu Val Gly Thr Gly Lys
 165 170 175

Arg Phe Leu Asn Ser Gly Gly Phe Ile Gly Phe Ala Thr Thr Ile His
 180 185 190

Gln Ile Val Arg Gln Trp Lys Tyr Lys Asp Asp Asp Asp Gln Leu
 195 200 205

Phe Tyr Thr Arg Leu Tyr Leu Asp Pro Gly Leu Arg Glu Lys Leu Ser
 210 215 220

Leu Asn Leu Asp His Lys Ser Arg Ile Phe Gln Asn Leu Asn Gly Ala
 225 230 235 240

Leu Asp Glu Val Val Leu Lys Phe Asp Arg Asn Arg Val Arg Ile Arg
 245 250 255

Asn Val Ala Tyr Asp Thr Leu Pro Ile Val Val His Gly Asn Gly Pro
 260 265 270

Thr Lys Leu Gln Leu Asn Tyr Leu Gly Asn Tyr Val Pro Asn Gly Trp
 275 280 285

Thr Pro Glu Gly Gly Cys Gly Phe Cys Asn Gln Asp Arg Arg Thr Leu
 290 295 300

Pro Gly Gly Gln Pro Pro Pro Arg Val Phe Leu Ala Val Phe Val Glu
 305 310 315 320

Gln Pro Thr Pro Phe Leu Pro Arg Phe Leu Gln Arg Leu Leu Leu Leu
 325 330 335

Asp Tyr Pro Pro Asp Arg Val Thr Leu Phe Leu His Asn Asn Glu Val
 340 345 350

Phe His Glu Pro His Ile Ala Asp Ser Trp Pro Gln Leu Gln Asp His
 355 360 365

Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro Gly
 370 375 380

Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu Cys
 385 390 395 400

Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu Gln
 405 410 415

Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro Met
 420 425 430

Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser

435 440 445
 Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val Gln
 450 455 460
 Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala Tyr
 465 470 475 480
 Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp Val
 485 490 495
 Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser Phe
 500 505 510
 Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe Gly
 515 520 525
 Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro Asp
 530 535 540
 Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr Ile
 545 550 555 560
 His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Glu Gly Ile Val Glu Gln
 565 570 575
 Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys
 580 585 590
 Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly
 595 600 605
 Arg His Glu Trp Xaa Gly Thr Asn Gly Ala Gly Pro His Met Lys Gly
 610 615 620
 Gly Pro Gly Gln Val Ile Gly Ser Leu Ala Asp Asn Leu Ala Ala Thr
 625 630 635 640
 Gly Gly Gly Lys Gly Pro Ala Lys Ser Gly Pro Asn His Gln His Arg
 645 650 655
 Ala Arg Gly Gln Thr Gly Thr Pro Lys Gly Asp Thr Gly
 660 665

<210> 146

<211> 411

<212> PRT

<213> Homo sapien

<400> 146

Met Gln Gly Pro Tyr Val Gln Gly Leu Gly Tyr Pro Glu Gly Arg Arg
 1 5 10 15

Thr Ser Arg Asp Glu Leu Gly Arg Ile Trp Gly Ala Val Leu Pro Ala
 20 25 30

Asp Arg Gly Val Gly Ala Ser Arg Gly Gly Val Trp Asn Val Pro Tyr
 35 40 45

Ile Ser Gln Ala Tyr Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu
 50 55 60

Pro Gln Arg Asp Val Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala
 65 70 75 80

Phe Cys Lys Ser Phe Arg Asp Lys Val Ser Ala Gly Ala Arg Ser Gly
 85 90 95

Leu Gly Ala Val Pro Gln Thr Pro Gly Ile Ala Cys Ile Thr Asp Thr
 100 105 110

Pro Thr Pro Leu Thr Gly Ile Phe Leu His Leu Ser Asn Gln His Glu
 115 120 125

Phe Gly Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His
 130 135 140

Pro Asp Leu Trp Gln Ile Phe Asp Asn Pro Val Val Ser Gly Asp Pro
 145 150 155 160

Ser Pro Glu His Thr Gly Ser Pro Pro Cys Ala Lys Glu Asp Thr Lys
 165 170 175

Arg Asp Gly Cys Cys Gln Arg Arg Thr Leu Ser Gly Arg Gly Arg Ser
 180 185 190

Pro Gly Gly Trp Glu Arg Gly Gly His Arg Ser Asp Val Pro Pro Thr
 195 200 205

Leu Ser Gln Asp Trp Lys Glu Gln Tyr Ile His Glu Asn Tyr Ser Arg
 210 215 220

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Ala Leu Glu Gly Glu Gly Ile Val Glu Gln Pro Cys Pro Asp Val Tyr
 225 230 235 240

Trp Phe Pro Leu Leu Ser Glu Gln Met Cys Asp Glu Leu Val Ala Glu
 245 250 255

Met Glu His Tyr Gly Gln Trp Ser Gly Gly Arg His Glu Asp Ser Arg
 260 265 270

Leu Ala Gly Gly Tyr Glu Asn Val Pro Thr Val Asp Ile His Met Lys
 275 280 285

Gln Val Gly Tyr Glu Asp Gln Trp Leu Gln Leu Leu Arg Thr Tyr Val
 290 295 300

Gly Pro Met Thr Glu Ser Leu Phe Pro Gly Tyr His Thr Lys Ala Arg
 305 310 315 320

Ala Val Met Asn Phe Val Val Arg Tyr Arg Pro Asp Glu Gln Pro Ser
 325 330 335

Leu Arg Pro His His Asp Ser Ser Thr Phe Thr Leu Asn Val Ala Leu
 340 345 350

Asn His Lys Gly Leu Asp Tyr Glu Gly Gly Gly Cys Arg Phe Leu Arg
 355 360 365

Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys Gly Trp Ala Leu Leu His
 370 375 380

Pro Gly Arg Leu Thr His Tyr His Glu Gly Leu Pro Thr Thr Trp Gly
 385 390 395 400

Thr Arg Tyr Ile Met Val Ser Phe Val Asp Pro
 405 410

<210> 147
 <211> 255
 <212> PRT
 <213> Homo sapien

<400> 147

Val Gly Thr Pro Arg Pro Glu His Thr Gly Ser Pro Pro Cys Ala Lys
 1 5 10 15

Glu Asp Thr Lys Arg Asp Gly Cys Cys Gln Arg Arg Thr Leu Ser Gly
 20 25 30

Arg Gly Arg Ser Pro Gly Gly Trp Glu Arg Gly Gly His Arg Ser Asp
 35 40 45

Val Pro Pro Thr Leu Ser Gln Asp Trp Lys Glu Gln Tyr Ile His Glu
 50 55 60

Asn Tyr Ser Arg Ala Leu Glu Gly Glu Gly Ile Val Glu Gln Pro Cys
 65 70 75 80

Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys Asp Glu
 85 90 95

Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly Arg His
 100 105 110

Glu Asp Ser Arg Leu Ala Gly Gly Tyr Glu Asn Val Pro Thr Val Asp
 115 120 125

Ile His Met Lys Gln Val Gly Tyr Glu Asp Gln Trp Leu Gln Leu Leu
 130 135 140

Arg Thr Tyr Val Gly Pro Met Thr Glu Ser Leu Phe Pro Gly Tyr His
 145 150 155 160

Thr Lys Ala Arg Ala Val Met Asn Phe Val Val Arg Tyr Arg Pro Asp
 165 170 175

Glu Gln Pro Ser Leu Arg Pro His His Asp Ser Ser Thr Phe Thr Leu
 180 185 190

Asn Val Ala Leu Asn His Lys Gly Leu Asp Tyr Glu Gly Gly Gly Cys
 195 200 205

Arg Phe Leu Arg Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys Gly Trp
 210 215 220

Ala Leu Leu His Pro Gly Arg Leu Thr His Tyr His Glu Gly Leu Pro
 225 230 235 240

Thr Thr Trp Gly Thr Arg Tyr Ile Met Val Ser Phe Val Asp Pro
 245 250 255

<210> 148
 <211> 312
 <212> PRT

<213> Homo sapien

<400> 148

Met Arg Ser Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu
 1 5 10 15

Phe Phe Gln Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu
 20 25 30

Met Ala His Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val
 35 40 45

Ile Ala Ala Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala
 50 55 60

Leu Arg Val Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr
 65 70 75 80

Met Ser Gly Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala
 85 90 95

Lys Glu Cys Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val
 100 105 110

Ser Ala Ala Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly
 115 120 125

Met Gly Leu Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly
 130 135 140

Pro Gly Leu Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn
 145 150 155 160

Met Phe Ser Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp
 165 170 175

Ser Gly Tyr Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly
 180 185 190

Arg Arg Ala Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly
 195 200 205

Val Val Asn Met Ser Thr Val Ser Ser Trp Ser Gly Pro Leu Glu Arg
 210 215 220

Pro Met Ser Cys Pro Val Cys Pro Ser Gly Ser Ala Ser Ile Ala Ala

225					230					235						240
Gly	Ala	Gly	Gly	Arg	Pro	Gly	Arg	Thr	Cys	Gly	Pro	Pro	Gly	His	Thr	
				245					250					255		
Leu	Ser	Pro	Gly	Lys	Lys	Gly	Val	Val	Cys	Gln	Gln	Lys	Val	Val	Ser	
			260					265					270			
Thr	Ser	Gly	Lys	His	Met	Gly	Arg	Tyr	Lys	Ser	Arg	Val	Cys	Ala	Ala	
		275					280					285				
Lys	Met	Ile	Ile	Ile	Gly	Gly	Gly	Ser	Thr	Pro	Tyr	Pro	Tyr	Asn	Gly	
	290					295					300					
Ser	Arg	Val	His	Thr	Ser	Tyr	Tyr									
305					310											
<210>	149															
<211>	299															
<212>	PRT															
<213>	Homo sapien															
<400>	149															
Leu	Ser	Phe	Ser	Arg	Lys	Arg	Gln	Gly	Asp	Val	Glu	Lys	Ser	Leu	Val	
1				5					10					15		
Pro	Ser	Pro	Ser	Ile	Cys	Gly	Phe	Arg	Phe	His	Phe	Leu	Leu	Arg	Glu	
			20					25					30			
Arg	Thr	Asp	Leu	Trp	Val	Leu	Gly	Gly	His	Gly	Ala	Thr	Arg	Cys	Met	
		35					40					45				
Arg	Ser	Pro	Arg	Gly	Gln	Arg	Pro	Glu	Ser	Ala	Leu	Pro	Val	Ala	Gly	
	50					55					60					
Ser	Gly	Arg	Arg	Ser	Asp	Pro	Gly	His	Tyr	Ser	Phe	Ser	Met	Arg	Ser	
65					70					75					80	
Pro	Glu	Leu	Ala	Leu	Pro	Arg	Gly	Met	Gln	Pro	Thr	Glu	Phe	Phe	Gln	
				85					90					95		
Ser	Leu	Gly	Gly	Asp	Gly	Glu	Arg	Asn	Val	Gln	Ile	Glu	Met	Ala	His	
			100					105					110			
Gly	Thr	Thr	Thr	Leu	Ala	Phe	Lys	Phe	Gln	His	Gly	Val	Ile	Ala	Ala	
							120					125				

Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala Leu Arg Val
 130 135 140

Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr Met Ser Gly
 145 150 155 160

Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala Lys Glu Cys
 165 170 175

Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val Ser Ala Ala
 180 185 190

Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly Met Gly Leu
 195 200 205

Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly Pro Gly Leu
 210 215 220

Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn Met Phe Ser
 225 230 235 240

Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp Ser Gly Tyr
 245 250 255

Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly Arg Arg Ala
 260 265 270

Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly Val Val Asn
 275 280 285

Met Ser Thr Val Ser Ser Trp Ser Arg Ala Thr
 290 295

<210> 150

<211> 274

<212> PRT

<213> Homo sapien

<400> 150

Met Arg Ser Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu
 1 5 10 15

Phe Phe Gln Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu
 20 25 30

Met Ala His Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val

35	40	45	
Ile	Ala	Ala	Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala
50			55 60
Leu	Arg	Val	Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr
65			70 75 80
Met	Ser	Gly	Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala
			85 90 95
Lys	Glu	Cys	Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val
			100 105 110
Ser	Ala	Ala	Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly
			115 120 125
Met	Gly	Leu	Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly
			130 135 140
Pro	Gly	Leu	Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn
145			150 155 160
Met	Phe	Ser	Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp
			165 170 175
Ser	Gly	Tyr	Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly
			180 185 190
Arg	Arg	Ala	Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly
			195 200 205
Val	Val	Asn	Ile Pro Glu Asp Gly Gly Asp Ser Glu Arg Pro Phe Gly
			210 215 220
Arg	Ala	Ser	Arg Asp His Gln Gly Gly Gly Gly Arg Pro Arg Gly Gly
225			230 235 240
Ser	Gly	Thr	Pro Phe Arg Lys Ser Arg Lys Val Ser Arg Gly Gly Cys
			245 250 255
Leu	Asn	Gln	Trp Pro Lys Lys Gly Pro Ala Ala Tyr Trp Arg Ser Ser
			260 265 270
Thr	Tyr		

<210> 151
 <211> 294
 <212> PRT
 <213> Homo sapien

<400> 151

Leu Ser Phe Ser Arg Lys Arg Gln Gly Asp Val Glu Lys Ser Leu Val
 1 5 10 15

Pro Ser Pro Ser Ile Cys Gly Phe Arg Phe His Phe Leu Leu Arg Glu
 20 25 30

Arg Thr Asp Leu Trp Val Leu Gly Gly His Gly Ala Thr Arg Cys Met
 35 40 45

Arg Ser Pro Arg Gly Gln Arg Pro Glu Ser Ala Leu Pro Val Ala Gly
 50 55 60

Ser Gly Arg Arg Ser Asp Pro Gly His Tyr Ser Phe Ser Met Arg Ser
 65 70 75 80

Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu Phe Phe Gln
 85 90 95

Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu Met Ala His
 100 105 110

Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val Ile Ala Ala
 115 120 125

Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala Leu Arg Val
 130 135 140

Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr Met Ser Gly
 145 150 155 160

Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala Lys Glu Cys
 165 170 175

Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val Ser Ala Ala
 180 185 190

Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly Met Gly Leu
 195 200 205

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Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly Pro Gly Leu
 210 215 220

Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn Met Phe Ser
 225 230 235 240

Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp Ser Gly Tyr
 245 250 255

Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly Arg Arg Ala
 260 265 270

Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly Val Val Asn
 275 280 285

Ile Pro Glu Glu Trp Trp
 290

<210> 152
 <211> 237
 <212> PRT
 <213> Homo sapien

<400> 152

Met Arg Ser Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu
 1 5 10 15

Phe Phe Gln Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu
 20 25 30

Met Ala His Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val
 35 40 45

Ile Ala Ala Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala
 50 55 60

Leu Arg Val Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr
 65 70 75 80

Met Ser Gly Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala
 85 90 95

Lys Glu Cys Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val
 100 105 110

Ser Ala Ala Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly
 115 120 125

Met Gly Leu Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly
 130 135 140

Pro Gly Leu Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn
 145 150 155 160

Met Phe Ser Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp
 165 170 175

Ser Gly Tyr Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly
 180 185 190

Arg Arg Ala Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly
 195 200 205

Val Val Asn Met Tyr His Ile Asp Thr Thr Met Val Gly Glu Ser Lys
 210 215 220

Val Asp Val Asp Leu Cys Pro Pro Glu Ala Gln Ser Gly
 225 230 235

<210> 153

<211> 297

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (297)..(297)

<223> X=any amino acid

<400> 153

Leu Ser Phe Ser Arg Lys Arg Gln Gly Asp Val Glu Lys Ser Leu Val
 1 5 10 15

Pro Ser Pro Ser Ile Cys Gly Phe Arg Phe His Phe Leu Leu Arg Glu
 20 25 30

Arg Thr Asp Leu Trp Val Leu Gly Gly His Gly Ala Thr Arg Cys Met
 35 40 45

Arg Ser Pro Arg Gly Gln Arg Pro Glu Ser Ala Leu Pro Val Ala Gly
 50 55 60

Ser Gly Arg Arg Ser Asp Pro Gly His Tyr Ser Phe Ser Met Arg Ser
 65 70 75 80

Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu Phe Phe Gln
 85 90 95

Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu Met Ala His
 100 105 110

Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val Ile Ala Ala
 115 120 125

Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala Leu Arg Val
 130 135 140

Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr Met Ser Gly
 145 150 155 160

Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala Lys Glu Cys
 165 170 175

Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val Ser Ala Ala
 180 185 190

Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly Met Gly Leu
 195 200 205

Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly Pro Gly Leu
 210 215 220

Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn Met Phe Ser
 225 230 235 240

Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp Ser Gly Tyr
 245 250 255

Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly Arg Arg Ala
 260 265 270

Ile Ala Tyr Ala Thr His Arg Asp Ser Tyr Ser Gly Gly Val Val Asn
 275 280 285

Met Tyr His Ile Glu Arg Asp Gly Xaa
 290 295

<210> 154
 <211> 260
 <212> PRT

<213> Homo sapien

<400> 154

Met Asp Ser Ser Leu Pro Asn Ala Gln His Asp Val Gln Gly Leu Ser
 1 5 10 15

Pro Gln Glu Asn Leu Ser Pro Pro Ser Phe Pro Thr Ser Ser His Pro
 20 25 30

Gln Val Cys Gln Lys Ser Gly Glu Ile Ser Leu Leu Lys Gln Gln Leu
 35 40 45

Lys Glu Ser Gln Ala Glu Leu Val Gln Lys Gly Ser Glu Leu Val Ala
 50 55 60

Leu Arg Val Ala Leu Arg Glu Ala Arg Ala Thr Leu Arg Val Ser Glu
 65 70 75 80

Gly Arg Ala Arg Gly Leu Gln Glu Ala Ala Arg Ala Arg Glu Leu Glu
 85 90 95

Leu Glu Ala Cys Ser Gln Glu Leu Gln Arg His Arg Gln Glu Ala Glu
 100 105 110

Gln Leu Arg Glu Lys Ala Gly Gln Leu Asp Ala Glu Ala Ala Gly Leu
 115 120 125

Arg Glu Pro Pro Val Pro Pro Ala Thr Ala Asp Pro Phe Leu Leu Ala
 130 135 140

Glu Ser Asp Glu Ala Lys Val Gln Arg Ala Ala Ala Gly Val Gly Gly
 145 150 155 160

Ser Leu Arg Ala Gln Val Glu Arg Leu Arg Val Glu Leu Gln Arg Glu
 165 170 175

Arg Arg Arg Gly Glu Glu Gln Arg Asp Ser Phe Glu Gly Glu Arg Leu
 180 185 190

Ala Trp Gln Ala Glu Lys Glu Gln Val Ile Arg Tyr Gln Lys Gln Leu
 195 200 205

Gln His Asn Tyr Ile Gln Met Tyr Arg Arg Asn Arg Gln Leu Glu Gln
 210 215 220

Glu Leu Gln Gln Leu Ser Leu Glu Leu Glu Ala Arg Glu Leu Ala Asp

225 230 235 240

Leu Gly Leu Ala Glu Gln Ala Pro Cys Ile Cys Leu Glu Glu Ile Thr
245 250 255

Ala Thr Glu Ile
260

<210> 155
<211> 249
<212> PRT
<213> Homo sapien

<400> 155

Cys Ala Gly Pro Val Pro Pro Gly Glu Pro Val Ser Pro Ser Phe Pro
1 5 10 15

Thr Ser Ser His Pro Gln Val Cys Gln Lys Ser Gly Glu Ile Ser Leu
20 25 30

Leu Lys Gln Gln Leu Lys Glu Ser Gln Ala Glu Leu Val Gln Lys Gly
35 40 45

Ser Glu Leu Val Ala Leu Arg Val Ala Leu Arg Glu Ala Arg Ala Thr
50 55 60

Leu Arg Val Ser Glu Gly Arg Ala Arg Gly Leu Gln Glu Ala Ala Arg
65 70 75 80

Ala Arg Glu Leu Glu Leu Glu Ala Cys Ser Gln Glu Leu Gln Arg His
85 90 95

Arg Gln Glu Ala Glu Gln Leu Arg Glu Lys Ala Gly Gln Leu Asp Ala
100 105 110

Glu Ala Ala Gly Leu Arg Glu Pro Pro Val Pro Pro Ala Thr Ala Asp
115 120 125

Pro Phe Leu Leu Ala Glu Ser Asp Glu Ala Lys Val Gln Arg Ala Ala
130 135 140

Ala Gly Val Gly Gly Ser Leu Arg Ala Gln Val Glu Arg Leu Arg Val
145 150 155 160

Glu Leu Gln Arg Glu Arg Arg Arg Gly Glu Glu Gln Arg Asp Ser Phe
165 170 175

Glu Gly Glu Arg Leu Ala Trp Gln Ala Glu Lys Glu Gln Val Ile Arg
 180 185 190

Tyr Gln Lys Gln Leu Gln His Asn Tyr Ile Gln Met Tyr Arg Arg Asn
 195 200 205

Arg Gln Leu Glu Gln Glu Leu Gln Gln Leu Ser Leu Glu Leu Glu Ala
 210 215 220

Arg Glu Leu Ala Asp Leu Gly Leu Ala Glu Gln Ala Pro Cys Ile Cys
 225 230 235 240

Leu Glu Glu Ile Thr Ala Thr Glu Ile
 245

<210> 156
 <211> 132
 <212> PRT
 <213> Homo sapien

<400> 156

Met Arg Gly Ser His Leu Pro Gln Pro Gln Thr His Phe Ser Lys Trp
 1 5 10 15

Ser Leu His Leu Pro Leu Leu Leu Phe Arg Ala Pro Arg Ala Gly Ala
 20 25 30

Gly Leu Ala Gly Pro Gly Phe Pro Asp Ser Trp Leu Trp Leu Pro Gly
 35 40 45

Cys Val Ala Leu Arg Ala Arg Leu Cys Gly Thr Leu Asp Leu Trp Ala
 50 55 60

Leu Gly Ser Val Gly Leu Gly Gly Pro Gly Ser Leu Gly Pro Ala Gly
 65 70 75 80

Cys Pro Leu Val Gly Leu Thr Leu Gly Pro Leu Arg Val Phe Val Ser
 85 90 95

Phe Gly Ser Leu Ser Phe Ser Glu Pro Val Ser Phe Leu Gln Phe Ser
 100 105 110

Leu Ser Pro Cys Ser Leu Lys Trp Gly Asn Ala Thr Glu Val Pro Ala
 115 120 125

Pro Leu Ala Pro

130

<210> 157
<211> 225
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (23)..(23)
<223> X=any amino acid

<400> 157

Ala Trp Ser Ser Ala Ala Glu Val Arg Gly Ala Gly Ser Gly Arg Arg
1 5 10 15
Pro Gly Glu Pro Pro Thr Xaa Ala Arg Trp Asn Pro Ala Gly Gly Thr
20 25 30
Ala Phe Pro Ser Arg Pro His Phe Leu Glu Gly Gly Leu Asp Ser Gly
35 40 45
Glu Trp Val Arg Gly Ser Trp Leu Pro Ala Ala Glu Trp Glu Leu Val
50 55 60
Ile Ala Asp Leu Thr Pro Leu Asp Trp Ser Leu Glu Phe Gly Trp Glu
65 70 75 80
Gly Asp Phe Pro Gln Leu Phe Arg Ser Val Ser Gly Pro Glu Pro Ala
85 90 95
Pro Ala Leu Cys Ser Pro Gln Pro Thr Lys Arg Gly Val Leu Leu Gly
100 105 110
Gln Ser Asp Cys Ser Gly Ser Ala Gly Glu Asn Glu Gly Phe Pro Ser
115 120 125
Pro Thr Ala Thr Asn Ala Phe Leu Lys Met Glu Pro Pro Leu Ala Pro
130 135 140
Pro Ser Leu Ser Gly Ser Lys Ser Gly Ser Arg Pro Gly Trp Ala Trp
145 150 155 160
Leu Ser Arg Leu Leu Ala Leu Ala Pro Trp Met Cys Gly Ser Gln Gly
165 170 175
Pro Ala Leu Trp His Phe Gly Leu Met Gly Pro Arg Leu Arg Gly Val

180 185 190
 Gly Gly Pro Trp Leu Thr Gly Ser Arg Trp Leu Ser Pro Cys Arg Pro
 195 200 205
 Asp Pro Arg Ala Ser Pro Ser Leu Cys Leu Phe Trp Val Pro Val Phe
 210 215 220
 Leu
 225.
 <210> 158
 <211> 451
 <212> PRT
 <213> Homo sapien
 <400> 158
 Ala Ser Ala Thr Met Ala Ile Val Gln Thr Leu Pro Val Pro Leu Glu
 1 5 10 15
 Pro Ala Pro Glu Ala Ala Thr Ala Pro Gln Ala Pro Val Met Gly Ser
 20 25 30
 Val Ser Ser Leu Ile Ser Gly Arg Pro Cys Pro Gly Gly Pro Ala Pro
 35 40 45
 Pro Arg His His Gly Pro Pro Gly Pro Thr Phe Phe Arg Gln Gln Asp
 50 55 60
 Gly Leu Leu Arg Gly Gly Tyr Glu Ala Gln Glu Pro Leu Cys Pro Ala
 65 70 75 80
 Val Pro Pro Arg Lys Ala Val Pro Val Thr Ser Phe Thr Tyr Ile Asn
 85 90 95
 Glu Asp Phe Arg Thr Glu Ser Pro Pro Ser Pro Ser Ser Asp Val Glu
 100 105 110
 Asp Ala Arg Glu Gln Arg Ala His Asn Ala His Leu Arg Gly Pro Pro
 115 120 125
 Pro Lys Leu Ile Pro Val Ser Gly Lys Leu Glu Lys Asn Met Glu Lys
 130 135 140
 Ile Leu Ile Arg Pro Thr Ala Phe Lys Pro Val Leu Pro Lys Pro Arg
 145 150 155 160

Gly Ala Pro Ser Leu Pro Ser Phe Met Gly Pro Arg Ala Thr Gly Leu
 165 170 175

Ser Gly Ser Gln Gly Ser Leu Thr Gln Leu Phe Gly Gly Pro Ala Ser
 180 185 190

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ala Ala Asp Lys Pro Leu Ala
 195 200 205

Phe Ser Gly Trp Ala Ser Gly Cys Pro Ser Gly Thr Leu Ser Asp Ser
 210 215 220

Gly Arg Asn Ser Leu Ser Ser Leu Pro Thr Tyr Ser Thr Gly Gly Ala
 225 230 235 240

Glu Pro Thr Thr Ser Ser Pro Gly Gly His Leu Pro Ser His Gly Ser
 245 250 255

Gly Arg Gly Ala Leu Pro Gly Pro Ala Arg Gly Val Pro Thr Gly Pro
 260 265 270

Ser His Ser Asp Ser Gly Arg Ser Ser Ser Ser Lys Ser Thr Gly Ser
 275 280 285

Leu Gly Gly Arg Val Ala Gly Gly Leu Leu Gly Ser Gly Thr Arg Ala
 290 295 300

Ser Pro Asp Ser Ser Ser Cys Gly Glu Arg Ser Pro Pro Pro Pro Pro
 305 310 315 320

Pro Pro Pro Ser Asp Glu Ala Leu Leu His Cys Val Leu Glu Gly Lys
 325 330 335

Leu Arg Asp Arg Glu Ala Glu Leu Gln Gln Leu Arg Asp Ser Leu Asp
 340 345 350

Glu Asn Glu Ala Thr Met Cys Gln Ala Tyr Glu Glu Arg Gln Arg His
 355 360 365

Trp Gln Arg Glu Arg Glu Ala Leu Arg Glu Asp Cys Ala Ala Gln Ala
 370 375 380

Gln Arg Ala Gln Arg Ala Gln Gln Leu Leu Gln Leu Gln Val Phe Gln
 385 390 395 400

Leu Gln Gln Glu Lys Arg Gln Leu Gln Asp Asp Phe Ala Gln Leu Leu
 405 410 415

Gln Glu Arg Glu Gln Leu Glu Arg Arg Cys Ala Thr Leu Glu Arg Glu
 420 425 430

Arg Arg Arg Gly Glu Glu Gln Arg Asp Ser Phe Glu Gly Glu Arg Asp
 435 440 445

His Cys Tyr
 450

<210> 159
 <211> 1193
 <212> PRT
 <213> Homo sapien

<400> 159

Met Glu Arg His Gln Pro Arg Leu His His Pro Ala Gln Gly Ser Ala
 1 5 10 15

Ala Gly Thr Pro Tyr Pro Ser Ser Ala Ser Leu Arg Gly Cys Arg Glu
 20 25 30

Ser Lys Met Pro Arg Arg Lys Gly Pro Gln His Pro Pro Pro Pro Ser
 35 40 45

Gly Pro Glu Glu Pro Gly Glu Lys Arg Pro Lys Phe His Leu Asn Ile
 50 55 60

Arg Thr Leu Thr Asp Asp Met Leu Asp Lys Phe Ala Ser Ile Arg Ile
 65 70 75 80

Pro Gly Ser Lys Lys Glu Arg Pro Pro Leu Pro Asn Leu Lys Thr Ala
 85 90 95

Phe Ala Ser Ser Asp Cys Ser Ala Ala Pro Leu Glu Met Met Glu Asn
 100 105 110

Phe Pro Lys Pro Leu Ser Glu Asn Glu Leu Leu Glu Leu Phe Glu Lys
 115 120 125

Met Met Glu Asp Met Asn Leu Asn Glu Asp Lys Lys Ala Pro Leu Arg
 130 135 140

Glu Lys Asp Phe Ser Ile Lys Lys Glu Met Val Met Gln Tyr Ile Asn
 145 150 155 160

Thr Ala Ser Lys Thr Gly Ser Leu Lys Arg Ser Arg Gln Ile Ser Pro
165 170 175

Gln Glu Phe Ile His Glu Leu Lys Met Gly Ser Ala Asp Glu Arg Leu
180 185 190

Val Thr Cys Leu Glu Ser Leu Arg Val Ser Leu Thr Ser Asn Pro Val
195 200 205

Ser Trp Val Glu Ser Phe Gly His Glu Gly Leu Gly Leu Leu Leu Asp
210 215 220

Ile Leu Glu Lys Leu Ile Ser Gly Lys Ile Gln Glu Lys Val Val Lys
225 230 235 240

Lys Asn Gln His Lys Val Ile Gln Cys Leu Lys Ala Leu Met Asn Thr
245 250 255

Gln Tyr Gly Leu Glu Arg Ile Met Ser Glu Glu Arg Ser Leu Ser Leu
260 265 270

Leu Ala Lys Ala Val Asp Pro Arg His Pro Asn Met Met Thr Asp Val
275 280 285

Val Lys Leu Leu Ser Ala Val Cys Ile Val Gly Glu Glu Ser Ile Leu
290 295 300

Glu Glu Val Leu Glu Ala Leu Thr Ser Ala Gly Glu Glu Lys Lys Ile
305 310 315 320

Asp Arg Phe Phe Cys Ile Val Glu Gly Leu Arg His Asn Ser Val Gln
325 330 335

Leu Gln Val Ala Cys Met Gln Leu Ile Asn Ala Leu Val Thr Ser Pro
340 345 350

Asp Asp Leu Asp Phe Arg Leu His Ile Arg Asn Glu Phe Met Arg Cys
355 360 365

Gly Leu Lys Glu Ile Leu Pro Asn Leu Lys Cys Ile Lys Asn Asp Gly
370 375 380

Leu Asp Ile Gln Leu Lys Val Phe Asp Glu His Lys Glu Glu Asp Leu
385 390 395 400

Phe Glu Leu Ser His Arg Leu Glu Asp Ile Arg Ala Glu Leu Asp Glu
 405 410 415

Ala Tyr Asp Val Tyr Asn Met Val Trp Ser Thr Val Lys Glu Thr Arg
 420 425 430

Ala Glu Gly Tyr Phe Ile Ser Ile Leu Gln His Leu Leu Leu Ile Arg
 435 440 445

Asn Asp Tyr Phe Ile Arg Gln Gln Tyr Phe Lys Leu Ile Asp Glu Cys
 450 455 460

Val Ser Gln Ile Val Leu His Arg Asp Gly Met Asp Pro Asp Phe Thr
 465 470 475 480

Tyr Arg Lys Arg Leu Asp Leu Asp Leu Thr Gln Phe Val Asp Ile Cys
 485 490 495

Ile Asp Gln Ala Lys Leu Glu Glu Phe Glu Glu Lys Ala Ser Glu Leu
 500 505 510

Tyr Lys Lys Phe Glu Lys Glu Phe Thr Asp His Gln Glu Thr Gln Ala
 515 520 525

Glu Leu Gln Lys Lys Glu Ala Lys Ile Asn Glu Leu Gln Ala Glu Leu
 530 535 540

Gln Ala Phe Lys Ser Gln Phe Gly Ala Leu Pro Ala Asp Cys Asn Ile
 545 550 555 560

Pro Leu Pro Pro Ser Lys Glu Gly Gly Thr Gly His Ser Ala Leu Pro
 565 570 575

Pro Pro Pro Pro Leu Pro Ser Gly Gly Gly Val Pro Pro Pro Pro Pro
 580 585 590

Pro Pro Pro Pro Pro Pro Leu Pro Gly Met Arg Met Pro Phe Ser Gly
 595 600 605

Pro Val Pro Pro Pro Pro Pro Leu Gly Phe Leu Gly Gly Gln Asn Ser
 610 615 620

Pro Pro Leu Pro Ile Leu Pro Phe Gly Leu Lys Pro Lys Lys Glu Phe
 625 630 635 640

Lys Pro Glu Ile Ser Met Arg Arg Leu Asn Trp Leu Lys Ile Arg Pro
645 650 655

His Glu Met Thr Glu Asn Cys Phe Trp Ile Lys Val Asn Glu Asn Lys
660 665 670

Tyr Glu Asn Val Asp Leu Leu Cys Lys Leu Glu Asn Thr Phe Cys Cys
675 680 685

Gln Gln Lys Glu Arg Arg Glu Glu Glu Asp Ile Glu Glu Lys Lys Ser
690 695 700

Ile Lys Lys Lys Ile Lys Glu Leu Lys Phe Leu Asp Ser Lys Ile Ala
705 710 715 720

Gln Asn Leu Ser Ile Phe Leu Ser Ser Phe Arg Val Pro Tyr Glu Glu
725 730 735

Ile Arg Met Met Ile Leu Glu Val Asp Glu Thr Arg Leu Ala Glu Ser
740 745 750

Met Ile Gln Asn Leu Ile Lys His Leu Pro Asp Gln Glu Gln Leu Asn
755 760 765

Ser Leu Ser Gln Phe Lys Ser Glu Tyr Ser Asn Leu Cys Glu Pro Glu
770 775 780

Gln Phe Val Val Val Met Ser Asn Val Lys Arg Leu Arg Pro Arg Leu
785 790 795 800

Ser Ala Ile Leu Phe Lys Leu Gln Phe Glu Glu Gln Val Asn Asn Ile
805 810 815

Lys Pro Asp Ile Met Ala Val Ser Thr Ala Cys Glu Glu Ile Lys Lys
820 825 830

Ser Lys Ser Phe Ser Lys Leu Leu Glu Leu Val Leu Leu Met Gly Asn
835 840 845

Tyr Met Asn Ala Gly Ser Arg Asn Ala Gln Thr Phe Gly Phe Asn Leu
850 855 860

Ser Ser Leu Cys Lys Leu Lys Asp Thr Lys Ser Ala Asp Gln Lys Thr
865 870 875 880

Thr Leu Leu His Phe Leu Val Glu Ile Cys Glu Glu Lys Tyr Pro Asp

885	890	895
Ile Leu Asn Phe Val Asp Asp Leu Glu Pro Leu Asp Lys Ala Ser Lys 900 905 910		
Val Ser Val Glu Thr Leu Glu Lys Asn Leu Arg Gln Met Gly Arg Gln 915 920 925		
Leu Gln Gln Leu Glu Lys Glu Leu Glu Thr Phe Pro Pro Pro Glu Asp 930 935 940		
Leu His Asp Lys Phe Val Thr Lys Met Ser Arg Phe Val Ile Ser Ala 945 950 955 960		
Lys Glu Gln Tyr Glu Thr Leu Ser Lys Leu His Glu Asn Met Glu Lys 965 970 975		
Leu Tyr Gln Ser Ile Ile Gly Tyr Tyr Ala Ile Asp Val Lys Lys Val 980 985 990		
Ser Val Glu Asp Phe Leu Thr Asp Leu Asn Asn Phe Arg Thr Thr Phe 995 1000 1005		
Met Gln Ala Ile Lys Glu Asn Ile Lys Lys Arg Glu Ala Glu Glu 1010 1015 1020		
Lys Glu Lys Arg Val Arg Ile Ala Lys Glu Leu Ala Glu Arg Glu 1025 1030 1035		
Arg Leu Glu Arg Gln Gln Lys Lys Lys Arg Leu Leu Glu Met Lys 1040 1045 1050		
Thr Glu Gly Asp Glu Thr Gly Val Met Asp Asn Leu Leu Glu Ala 1055 1060 1065		
Leu Gln Ser Gly Ala Ala Phe Arg Asp Arg Arg Lys Arg Thr Pro 1070 1075 1080		
Met Pro Lys Asp Val Arg Gln Ser Leu Ser Pro Met Ser Gln Arg 1085 1090 1095		
Pro Val Leu Lys Val Cys Asn His Glu Asn Gln Lys Val Gln Leu 1100 1105 1110		
Thr Glu Gly Ser Arg Ser His Tyr Asn Ile Asn Cys Asn Ser Thr 1115 1120 1125		

Arg Thr Pro Val Ala Lys Glu Leu Asn Tyr Asn Leu Asp Thr His
 1130 1135 1140

Thr Ser Thr Gly Arg Ile Lys Ala Ala Glu Lys Lys Glu Ala Cys
 1145 1150 1155

Asn Val Glu Ser Asn Arg Lys Lys Glu Thr Glu Leu Leu Gly Ser
 1160 1165 1170

Phe Ser Lys Asn Glu Ser Val Pro Glu Val Glu Ala Leu Leu Ala
 1175 1180 1185

Arg Leu Arg Ala Leu
 1190

<210> 160
 <211> 650
 <212> PRT
 <213> Homo sapien

<400> 160

Met Ser Leu Ala Asp Glu Leu Leu Ala Asp Leu Glu Glu Ala Ala Glu
 1 5 10 15

Glu Glu Glu Gly Gly Ser Tyr Gly Glu Glu Glu Glu Glu Pro Ala Ile
 20 25 30

Glu Asp Val Gln Glu Glu Thr Gln Leu Asp Leu Ser Gly Asp Ser Val
 35 40 45

Lys Thr Ile Ala Lys Leu Trp Asp Ser Lys Met Phe Ala Glu Ile Met
 50 55 60

Met Lys Ile Glu Glu Tyr Ile Ser Lys Gln Ala Lys Ala Ser Glu Val
 65 70 75 80

Met Gly Pro Val Glu Ala Ala Pro Glu Tyr Arg Val Ile Val Asp Ala
 85 90 95

Asn Asn Leu Thr Val Glu Ile Glu Asn Glu Leu Asn Ile Ile His Lys
 100 105 110

Phe Ile Arg Asp Lys Tyr Ser Lys Arg Phe Pro Glu Leu Glu Ser Leu
 115 120 125

Val Pro Asn Ala Leu Asp Tyr Ile Arg Thr Val Lys Glu Leu Gly Asn
 130 135 140

Ser Leu Asp Lys Cys Lys Asn Asn Glu Asn Leu Gln Gln Ile Leu Thr
 145 150 155 160

Asn Ala Thr Ile Met Val Val Ser Val Thr Ala Ser Thr Thr Gln Gly
 165 170 175

Gln Gln Leu Ser Glu Glu Glu Leu Glu Arg Leu Glu Glu Ala Cys Asp
 180 185 190

Met Ala Leu Glu Leu Asn Ala Ser Lys His Arg Ile Tyr Glu Tyr Val
 195 200 205

Glu Ser Arg Met Ser Phe Ile Ala Pro Asn Leu Ser Ile Ile Ile Gly
 210 215 220

Ala Ser Thr Ala Ala Lys Ile Met Gly Val Ala Gly Gly Leu Thr Asn
 225 230 235 240

Leu Ser Lys Met Pro Ala Cys Asn Ile Met Leu Leu Gly Ala Gln Arg
 245 250 255

Lys Thr Leu Ser Gly Phe Ser Ser Thr Ser Val Leu Pro His Thr Gly
 260 265 270

Tyr Ile Tyr His Ser Asp Ile Val Gln Ser Leu Pro Pro Asp Leu Arg
 275 280 285

Arg Lys Ala Ala Arg Leu Val Ala Ala Lys Cys Thr Leu Ala Ala Arg
 290 295 300

Val Asp Ser Phe His Glu Ser Thr Glu Gly Lys Val Gly Tyr Glu Leu
 305 310 315 320

Lys Asp Glu Ile Glu Arg Lys Phe Asp Lys Trp Gln Glu Pro Pro Pro
 325 330 335

Val Lys Gln Val Lys Pro Leu Pro Ala Pro Leu Asp Gly Gln Arg Lys
 340 345 350

Lys Arg Gly Gly Arg Ser Val Arg Gly Pro Gly Gly Pro Val Gly Met
 355 360 365

Gly Val Met Glu Gly Arg Ser Arg Arg Pro Pro Pro Ser Arg Leu Pro

370		375		380
Gly Ala Ala His Pro Pro Val Pro Val Pro Gln Asp Glu Gly Ala Ala				
385		390		395 400
Gly Ala Asp Gly Asp Pro Glu Ala Gly Gln Pro Tyr Glu Leu Arg Arg				
	405		410	415
Gly Gln Thr Pro Arg Ala Pro Ser Ser Thr Pro Gln Pro Ala Ser Arg				
	420		425	430
His Arg Pro Leu Pro Pro Ala Thr Ala Pro Pro Leu Val Leu Trp Pro				
	435		440	445
Trp Leu Met Ser Arg Ala Leu Pro Gln Pro Pro Pro Pro Arg Pro Leu				
	450		455	460
Phe Ser Phe Pro Ser Ile Gln Pro Gln Ser Asp Pro Arg Gly Pro Trp				
465		470		475 480
Ser Leu Cys Leu Arg Cys Leu Glu Pro Pro Arg Leu Pro Ile Ala Pro				
	485		490	495
Gly Ser Leu Ala Gly Ser Ser Leu Pro Arg Gly Ser Leu Val Pro Cys				
	500		505	510
Cys Thr Ala Ala Pro Ser Leu Gly Pro Ala Ser Leu Leu Cys Tyr Pro				
	515		520	525
Ser Val Ile Pro Leu Val Leu Gln Asp Arg Thr Gln Arg Pro Pro His				
	530		535	540
Pro Ile Lys Pro Val Leu Val Pro Asp Ile Pro Arg Pro Thr Arg Ile				
545		550		555 560
Glu Glu Asp Ala Tyr Gln Glu Asp Leu Gly Phe Ser Leu Gly His Leu				
	565		570	575
Gly Lys Ser Gly Ser Gly Arg Val Arg Gln Thr Gln Val Asn Glu Ala				
	580		585	590
Thr Lys Ala Arg Ile Ser Lys Thr Leu Gln Arg Thr Leu Gln Lys Gln				
	595		600	605
Ser Val Val Tyr Gly Gly Lys Ser Thr Ile Arg Asp Arg Ser Ser Gly				
	610		615	620

Thr Ala Ser Ser Val Ala Phe Thr Pro Leu Gln Gly Pro Gly Asp Cys
 625 630 635 640

Glu Pro Thr Gly Gly Arg Glu Glu Gly Gly
 645 650

<210> 161
 <211> 369
 <212> PRT
 <213> Homo sapien

<400> 161

Lys Gln Trp Cys Ala Glu Arg Arg Gly Leu Gly Met Ser Leu Ala Asp
 1 5 10 15

Glu Leu Leu Ala Asp Leu Glu Glu Ala Ala Glu Glu Glu Glu Gly Gly
 20 25 30

Ser Tyr Gly Glu Glu Glu Glu Glu Pro Ala Ile Glu Asp Val Gln Glu
 35 40 45

Glu Thr Gln Leu Asp Leu Ser Gly Asp Ser Val Lys Thr Ile Ala Lys
 50 55 60

Leu Trp Asp Ser Lys Met Phe Ala Glu Ile Met Met Lys Ile Glu Glu
 65 70 75 80

Tyr Ile Ser Lys Gln Ala Lys Ala Ser Glu Val Met Gly Pro Val Glu
 85 90 95

Ala Ala Pro Glu Tyr Arg Val Ile Val Asp Ala Asn Asn Leu Thr Val
 100 105 110

Glu Ile Glu Asn Glu Leu Asn Ile Ile His Lys Phe Ile Arg Asp Lys
 115 120 125

Tyr Ser Lys Arg Phe Pro Glu Leu Glu Ser Leu Val Pro Asn Ala Leu
 130 135 140

Asp Tyr Ile Arg Thr Val Lys Glu Leu Gly Asn Ser Leu Asp Lys Cys
 145 150 155 160

Lys Asn Asn Glu Asn Leu Gln Gln Ile Leu Thr Asn Ala Thr Ile Met
 165 170 175

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Val Val Ser Val Thr Ala Ser Thr Thr Gln Gly Gln Gln Leu Ser Glu
180 185 190

Glu Glu Leu Glu Arg Leu Glu Glu Ala Cys Asp Met Ala Leu Glu Leu
195 200 205

Asn Ala Ser Lys His Arg Ile Tyr Glu Tyr Val Glu Ser Arg Met Ser
210 215 220

Phe Ile Ala Pro Asn Leu Ser Ile Ile Ile Gly Ala Ser Thr Ala Ala
225 230 235 240

Lys Ile Met Gly Val Ala Gly Gly Leu Thr Asn Leu Ser Lys Met Pro
245 250 255

Ala Cys Asn Ile Met Leu Leu Gly Ala Gln Arg Lys Thr Leu Ser Gly
260 265 270

Phe Ser Ser Thr Ser Val Leu Pro His Thr Gly Tyr Ile Tyr His Ser
275 280 285

Asp Ile Val Gln Ser Leu Pro Pro Asp Leu Arg Arg Lys Ala Ala Arg
290 295 300

Leu Val Ala Ala Lys Cys Thr Leu Ala Ala Arg Val Asp Ser Phe His
305 310 315 320

Glu Ser Thr Glu Gly Lys Val Gly Tyr Glu Leu Lys Asp Glu Ile Glu
325 330 335

Arg Lys Phe Asp Lys Trp Gln Glu Pro Pro Pro Val Lys Gln Val Lys
340 345 350

Pro Leu Pro Ala Pro Leu Asp Gly Gln Arg Lys Lys Arg Gly Gly Arg
355 360 365

Arg

<210> 162
<211> 164
<212> PRT
<213> Homo sapien

<400> 162

Arg Arg Pro Tyr Ala Gly Thr Arg Leu Pro Val Gly Ser Pro Gly Leu
1 5 10 15

Phe Leu Asn Ala Ala Ala Ala Thr Pro Arg Thr Pro Ser Val Thr Gly
20 25 30

Ala Thr Glu Thr Val Thr Pro Ser Glu Ala Pro Val Leu Ala Ala Glu
35 40 45

Pro Glu Ala Asp Lys Gly Thr Val Leu Ala Leu Thr Glu Asn Asn Phe
50 55 60

Asp Asp Thr Ile Ala Glu Gly Ile Thr Phe Ile Lys Phe Tyr Ala Pro
65 70 75 80

Trp Cys Gly His Cys Lys Thr Leu Ala Pro Thr Trp Glu Glu Leu Ser
85 90 95

Lys Lys Glu Phe Pro Gly Leu Ala Gly Val Lys Ile Ala Glu Val Asp
100 105 110

Cys Thr Ala Glu Arg Asn Ile Cys Ser Lys Tyr Ser Val Arg Gly Tyr
115 120 125

Pro Thr Leu Leu Leu Phe Arg Gly Gly Lys Lys Val Ser Glu His Ser
130 135 140

Gly Gly Arg Asp Leu Asp Ser Leu His Arg Phe Val Leu Ser Gln Ala
145 150 155 160

Lys Asp Glu Leu

<210> 163
<211> 31
<212> PRT
<213> Homo sapien

<400> 163

Thr Asp Gln His Ser Ile Glu Ser Thr Val Thr Leu Arg Ser Glu Glu
1 5 10 15

Arg Gln Tyr Cys His Lys Ala Thr Phe Pro Glu Leu Val Gly Arg
20 25 30

<210> 164
<211> 110
<212> PRT
<213> Homo sapien

<400> 164

Pro Leu Cys Ile Gln His Ser Ser Pro Thr Ser His Thr Gln Gly Asp
 1 5 10 15

Val Asp Thr Trp Pro Lys Val Thr Gly Gly Arg Asn Leu Arg Asn Lys
 20 25 30

Thr Thr Tyr Thr Val Cys Leu Arg Gln Lys Ile Thr Ala Ala Ser Arg
 35 40 45

Pro Ala Ser Ala Leu Lys Glu Ile Phe Ile Asn His Val Trp Phe Thr
 50 55 60

Asp Asn Ser Phe Phe Lys Lys Thr Gln Pro Pro Arg Glu Ala Gln Leu
 65 70 75 80

Ser Arg Val Leu Tyr Thr Gln Leu Gln Leu Cys Ile Thr Ser Leu Val
 85 90 95

Phe Gln Glu Asn Gln Ser Gly Thr Ile Cys Leu Phe Thr Leu
 100 105 110

<210> 165

<211> 39

<212> PRT

<213> Homo sapien

<400> 165

Met Val Thr Leu Glu Phe Pro Tyr Glu Arg Arg Asp Val Lys Thr Lys
 1 5 10 15

Asp Arg Cys Gln Trp Ala Ala Leu Ala Leu Val Cys Thr Ala Val Ala
 20 25 30

Ala Val Asp Ala Ser Val Leu
 35

<210> 166

<211> 110

<212> PRT

<213> Homo sapien

<400> 166

Pro Leu Cys Ile Gln His Ser Ser Pro Thr Ser His Thr Gln Gly Asp
 1 5 10 15

Val Asp Thr Trp Pro Lys Val Thr Gly Gly Arg Asn Leu Arg Asn Lys
20 25 30

Thr Thr Tyr Thr Val Cys Leu Arg Gln Lys Ile Thr Ala Ala Ser Arg
35 40 45

Pro Ala Ser Ala Leu Lys Glu Ile Phe Ile Asn His Val Trp Phe Thr
50 55 60

Asp Asn Ser Phe Phe Lys Lys Thr Gln Pro Pro Arg Glu Ala Gln Leu
65 70 75 80

Ser Arg Val Leu Tyr Thr Gln Leu Gln Leu Cys Ile Thr Ser Leu Val
85 90 95

Phe Gln Glu Asn Gln Ser Gly Thr Ile Cys Leu Phe Thr Leu
100 105 110

<210> 167

<211> 140

<212> PRT

<213> Homo sapien

<400> 167

Met Val Gly Arg Arg Ala Leu Ile Val Leu Ala His Ser Glu Arg Thr
1 5 10 15

Ser Phe Asn Tyr Ala Met Lys Glu Ala Ala Ala Ala Ala Leu Lys Lys
20 25 30

Lys Gly Trp Glu Val Val Glu Ser Asp Leu Tyr Ala Met Asn Phe Asn
35 40 45

Pro Ile Ile Ser Arg Lys Asp Ile Thr Gly Lys Leu Lys Asp Pro Ala
50 55 60

Asn Phe Gln Tyr Pro Ala Glu Ser Val Leu Ala Tyr Lys Glu Gly His
65 70 75 80

Leu Ser Pro Asp Ile Val Ala Glu Gln Lys Lys Leu Glu Ala Ala Asp
85 90 95

Leu Val Ile Phe Gln Val Trp Gly Asp Ile Gly Arg Gly Val Arg Asp
100 105 110

Ile Cys Val Leu Ile Val Leu Asp Met Tyr Leu Ile Ser Tyr Glu Ile
115 120 125

Leu Asn Ser Tyr Pro Leu Tyr Cys Ile Leu Cys Lys
130 135 140

<210> 168
<211> 73
<212> PRT
<213> Homo sapien

<400> 168

Phe Glu Ser Val Pro Cys Lys Gly Glu Tyr Glu Thr Cys Asn Ser Asp
1 5 10 15

Asn Leu Asn His Ala Val Leu Ala Val Gly Tyr Gly Ile Gln Lys Gly
20 25 30

Asn Lys His Trp Ile Ile Lys Asn Ser Trp Gly Glu Asn Trp Gly Asn
35 40 45

Lys Gly Tyr Ile Leu Met Ala Arg Asn Lys Asn Asn Ala Cys Gly Ile
50 55 60

Ala Asn Leu Ala Ser Phe Pro Lys Met
65 70

<210> 169
<211> 72
<212> PRT
<213> Homo sapien

<400> 169

Ser Ser Arg Tyr Pro Gln Gly Glu Tyr Glu Thr Cys Asn Ser Asp Asn
1 5 10 15

Leu Asn His Ala Val Leu Ala Val Gly Tyr Gly Ile Gln Lys Gly Asn
20 25 30

Lys His Trp Ile Ile Lys Asn Ser Trp Gly Glu Asn Trp Gly Asn Lys
35 40 45

Gly Tyr Ile Leu Met Ala Arg Asn Lys Asn Asn Ala Cys Gly Ile Ala
50 55 60

Asn Leu Ala Ser Phe Pro Lys Met
65 70

<210> 170

<211> 321

<212> PRT

<213> Homo sapien .

<400> 170

Phe Val Ser Leu Cys Ser Gly Ser Ser Ser Cys Arg Ser Leu Leu Phe
 1 5 10 15

Phe Phe Arg Phe Val Leu Ile Arg Trp Ser Phe Pro Leu Leu Ser Ser
 20 25 30

Ser Phe Ser Ser Ser Leu Phe Val Val Leu Phe Arg Arg Cys Gly Leu
 35 40 45

Val Arg Phe Ser Arg Ser Val Leu Ala Ser Val Leu Leu Ala Leu Leu
 50 55 60

Leu Leu Ser Ser Cys Val Arg Phe Pro Val Ala Cys Leu Ser Phe Ser
 65 70 75 80

Leu Leu Leu Val Ile Cys Phe Ser Leu Phe Leu Leu Phe Leu Ser Pro
 85 90 95

Val Ser Pro Ser Phe Leu Val Ser Ser Ser Pro Phe Leu Leu Phe Ala
 100 105 110

Cys Ala Cys Leu Ala Arg Ser Val Phe Phe Cys Leu Cys Phe Cys Arg
 115 120 125

Val Arg Leu Ser Leu Val Phe Phe Gly Leu Leu Phe Leu Phe Ser Pro
 130 135 140

Leu Arg Ser Leu Leu Phe Ser Val Leu Arg Ala Ser Val Pro Phe Val
 145 150 155 160

Phe Phe Val Phe Phe Ala Ser Phe Arg Ser Leu Arg Ser Ser Ser Ser
 165 170 175

Val Pro Leu Leu Ser Ser Phe Leu Pro Leu Ser Pro Phe Leu Leu Leu
 180 185 190

Trp Leu Pro Ser Leu Ala Val Leu Pro Leu Arg Leu Pro Leu Leu Pro
 195 200 205

Ser Val Val Ser Arg Cys Cys Ser Cys Val Leu Leu Cys Val Leu Val
 210 215 220

Leu Phe Trp Phe Leu Val Gly Gly Cys Val Val Cys Ala Leu Cys Val
 225 230 235 240

Leu Phe Val Val Phe Val Arg Ser Trp Cys Thr Ala Glu Lys Ser His
 245 250 255

His Gln Arg Thr Ser Phe Asn Arg Leu Ile Val Gly Ala Ser Pro Glu
 260 265 270

Gly Leu Arg Ala Gly Arg Ser Gly Gly Cys Ser Arg Leu Leu Phe Phe
 275 280 285

Ala Pro Trp Ala Leu Ser Lys Arg Ser Arg Tyr Leu Ala Leu Glu Gly
 290 295 300

Thr Leu Ala Pro Pro Phe Phe Phe Cys Met Ser Thr Phe Ala Phe Ile
 305 310 315 320

Glu

<210> 171
 <211> 320
 <212> PRT
 <213> Homo sapien

<400> 171

Arg Leu Ala Leu Phe Trp Phe Phe Leu Val Ser Val Val Ile Val Leu
 1 5 10 15

Leu Pro Leu Arg Ser His Ser Leu Val Leu Ser Leu Ala Leu Phe Leu
 20 25 30

Leu Phe Leu Leu Pro Leu Arg Gly Ser Leu Pro Ala Leu Trp Ser Cys
 35 40 45

Ser Phe Leu Ser Val Cys Pro Gly Phe Arg Leu Val Gly Ser Ser Pro
 50 55 60

Ser Val Phe Leu Arg Pro Val Ser Cys Cys Leu Ser Val Phe Leu Ala
 65 70 75 80

Ser Ala Arg His Leu Phe Leu Leu Val Leu Ala Phe Ser Leu Ser Gly
 85 90 95

Leu Ala Phe Phe Pro Cys Leu Leu Leu Pro Phe Ser Ser Leu Cys Val

277/383

100	105	110
Cys Leu Ser Arg Ser Leu Cys Val Leu Leu Ser Leu Leu Ser Cys		
115	120	125
Pro Leu Val Ser Cys Leu Leu Arg Leu Ala Phe Ser Leu Leu Ser Ser		
130	135	140
Pro Phe Ala Ala Val Phe Cys Ser Pro Cys Leu Cys Pro Phe Cys Leu		
145	150	155 160
Leu Arg Leu Leu Arg Phe Leu Pro Phe Pro Pro Leu Leu Phe Leu Arg		
	165	170 175
Ser Ser Pro Leu Val Val Pro Pro Ala Leu Pro Phe Arg Cys Cys Ser		
	180	185 190
Gly Phe Pro Arg Trp Pro Ser Ser Leu Phe Ala Ser Leu Ser Phe Pro		
	195	200 205
Leu Ser Phe Leu Val Val Val Leu Val Cys Cys Cys Val Cys Ser Cys		
	210	215 220
Cys Ser Gly Ser Trp Leu Val Val Val Trp Cys Val Arg Cys Val Cys		
	225	230 235 240
Cys Leu Leu Cys Leu Cys Ala Arg Gly Val Leu Leu Arg Ser His Thr		
	245	250 255
Thr Ser Val Arg Arg Leu Thr Gly Tyr Arg Gly Arg Ile Pro Arg Gly		
	260	265 270
Ser Pro Ser Arg Ala Val Arg Arg Leu Phe Pro Pro Ser Phe Phe Cys		
	275	280 285
Ser Leu Gly Pro Val Gln Thr Val Pro Tyr Leu Ala Leu Glu Gly Thr		
	290	295 300
Leu Ala Pro Pro Phe Phe Phe Cys Met Ser Thr Phe Ala Phe Ile Glu		
	305	310 315 320

<210> 172

<211> 320

<212> PRT

<213> Homo sapien

<400> 172

Arg Leu Ala Leu Phe Trp Phe Phe Leu Val Ser Val Val Ile Val Leu
 1 5 10 15

Leu Pro Leu Arg Ser His Ser Leu Val Leu Ser Leu Ala Leu Phe Leu
 20 25 30

Leu Phe Leu Leu Pro Leu Arg Gly Ser Leu Pro Ala Leu Trp Ser Cys
 35 40 45

Ser Phe Leu Ser Val Cys Pro Gly Phe Arg Leu Val Gly Ser Ser Pro
 50 55 60

Ser Val Phe Leu Arg Pro Val Ser Cys Cys Leu Ser Val Phe Leu Ala
 65 70 75 80

Ser Ala Arg His Leu Phe Leu Leu Val Leu Ala Phe Ser Leu Ser Gly
 85 90 95

Leu Ala Phe Phe Pro Cys Leu Leu Leu Pro Phe Ser Ser Leu Cys Val
 100 105 110

Cys Leu Ser Arg Ser Leu Cys Val Leu Leu Ser Leu Leu Ser Cys
 115 120 125

Pro Leu Val Ser Cys Leu Leu Arg Leu Ala Phe Ser Leu Leu Ser Ser
 130 135 140

Pro Phe Ala Ala Val Phe Cys Ser Pro Cys Leu Cys Pro Phe Cys Leu
 145 150 155 160

Leu Arg Leu Leu Arg Phe Leu Pro Phe Pro Pro Leu Leu Phe Leu Arg
 165 170 175

Ser Ser Pro Leu Val Val Pro Pro Ala Leu Pro Phe Arg Cys Cys Ser
 180 185 190

Gly Phe Pro Arg Trp Pro Ser Ser Leu Phe Ala Ser Leu Ser Phe Pro
 195 200 205

Leu Ser Phe Leu Val Val Val Leu Val Cys Cys Cys Val Cys Ser Cys
 210 215 220

Cys Ser Gly Ser Trp Leu Val Val Val Trp Cys Val Arg Cys Val Cys
 225 230 235 240

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Cys Leu Leu Cys Leu Cys Ala Arg Gly Val Leu Leu Arg Ser His Thr
 245 250 255

Thr Ser Val Arg Arg Leu Thr Gly Tyr Arg Gly Arg Ile Pro Arg Gly
 260 265 270

Ser Pro Ser Arg Ala Val Arg Arg Leu Phe Pro Pro Ser Phe Phe Cys
 275 280 285

Ser Leu Gly Pro Val Gln Thr Val Pro Tyr Leu Ala Leu Glu Gly Thr
 290 295 300

Leu Ala Pro Pro Phe Phe Phe Cys Met Ser Thr Phe Ala Phe Ile Glu
 305 310 315 320

<210> 173
 <211> 684
 <212> PRT
 <213> Homo sapien

<400> 173

Met Glu Glu Asn Leu Ile Ser Met Arg Glu Asp His Ser Phe His Val
 1 5 10 15

Arg Tyr Arg Met Glu Ala Ser Cys Leu Glu Leu Ala Leu Glu Gly Glu
 20 25 30

Arg Leu Cys Lys Ser Gly Asp Cys Arg Ala Gly Val Ser Phe Phe Glu
 35 40 45

Ala Ala Val Gln Val Gly Thr Glu Asp Leu Lys Thr Leu Ser Ala Ile
 50 55 60

Tyr Ser Gln Leu Gly Asn Ala Tyr Phe Tyr Leu His Asp Tyr Ala Lys
 65 70 75 80

Ala Leu Glu Tyr His His His Asp Leu Thr Leu Ala Arg Thr Ile Gly
 85 90 95

Asp Gln Leu Gly Glu Ala Lys Ala Ser Gly Asn Leu Gly Asn Thr Leu
 100 105 110

Lys Val Leu Gly Asn Phe Asp Glu Ala Ile Val Cys Cys Gln Arg His
 115 120 125

Leu Asp Ile Ser Arg Glu Leu Asn Asp Lys Val Gly Glu Ala Arg Ala
 130 135 140

Leu Tyr Asn Leu Gly Asn Val Tyr His Ala Lys Gly Lys Ser Phe Gly
145 150 155 160

Cys Pro Gly Pro Gln Asp Val Gly Glu Phe Pro Glu Glu Val Arg Asp
165 170 175

Ala Leu Gln Ala Ala Val Asp Phe Tyr Glu Glu Asn Leu Ser Leu Val
180 185 190

Thr Ala Leu Gly Asp Arg Ala Ala Gln Gly Arg Ala Phe Gly Asn Leu
195 200 205

Gly Asn Thr His Tyr Leu Leu Gly Asn Phe Arg Asp Ala Val Ile Ala
210 215 220

His Glu Gln Arg Leu Leu Ile Ala Lys Glu Phe Gly Asp Lys Ala Ala
225 230 235 240

Glu Arg Arg Ala Tyr Ser Asn Leu Gly Asn Ala Tyr Ile Phe Leu Gly
245 250 255

Glu Phe Glu Thr Ala Ser Glu Tyr Tyr Lys Lys Thr Leu Leu Leu Ala
260 265 270

Arg Gln Leu Lys Asp Arg Ala Val Glu Ala Gln Ser Cys Tyr Ser Leu
275 280 285

Gly Asn Thr Tyr Thr Leu Leu Gln Asp Tyr Glu Lys Ala Ile Asp Tyr
290 295 300

His Leu Lys His Leu Ala Ile Ala Gln Glu Leu Asn Asp Arg Ile Gly
305 310 315 320

Glu Gly Arg Ala Cys Trp Ser Leu Gly Asn Ala Tyr Thr Ala Leu Gly
325 330 335

Asn His Asp Gln Ala Met His Phe Ala Glu Lys His Leu Glu Ile Ser
340 345 350

Arg Glu Val Gly Asp Lys Ser Gly Glu Leu Thr Ala Arg Leu Asn Leu
355 360 365

Ser Asp Leu Gln Met Val Leu Gly Leu Ser Tyr Ser Thr Asn Asn Ser
370 375 380

Ile Met Ser Glu Asn Thr Glu Ile Asp Ser Ser Leu Asn Gly Val Arg
 385 390 395 400

Pro Lys Leu Gly Arg Arg His Ser Met Glu Asn Met Glu Leu Met Lys
 405 410 415

Leu Thr Pro Glu Lys Val Gln Asn Trp Asn Ser Glu Ile Leu Ala Lys
 420 425 430

Gln Lys Pro Leu Ile Ala Lys Pro Ser Ala Lys Leu Leu Phe Val Asn
 435 440 445

Arg Leu Lys Gly Lys Lys Tyr Lys Thr Asn Ser Ser Thr Lys Val Leu
 450 455 460

Gln Asp Ala Ser Asn Ser Ile Asp His Arg Ile Pro Asn Ser Gln Arg
 465 470 475 480

Lys Ile Ser Ala Asp Thr Ile Gly Asp Glu Gly Phe Phe Asp Leu Leu
 485 490 495

Ser Arg Phe Gln Ser Asn Arg Met Asp Asp Gln Arg Cys Cys Leu Gln
 500 505 510

Glu Lys Asn Cys His Thr Ala Ser Thr Thr Thr Ser Ser Thr Pro Pro
 515 520 525

Lys Met Met Leu Lys Thr Ser Ser Val Pro Val Val Ser Pro Asn Thr
 530 535 540

Asp Glu Phe Leu Asp Leu Leu Ala Ser Ser Gln Ser Arg Arg Leu Asp
 545 550 555 560

Asp Gln Arg Ala Ser Phe Ser Asn Leu Pro Gly Leu Arg Leu Thr Gln
 565 570 575

Asn Ser Gln Ser Val Leu Ser His Leu Met Thr Asn Asp Asn Lys Glu
 580 585 590

Ala Asp Glu Asp Phe Phe Asp Ile Leu Val Lys Cys Gln Gly Ser Arg
 595 600 605

Leu Asp Asp Gln Arg Cys Ala Pro Pro Pro Ala Thr Thr Lys Gly Pro
 610 615 620

Thr Val Pro Asp Glu Asp Phe Phe Ser Leu Ile Leu Arg Ser Gln Gly
625 630 635 640

Lys Arg Met Asp Glu Gln Arg Val Leu Leu Gln Arg Asp Gln Asn Arg
645 650 655

Asp Thr Asp Phe Gly Leu Lys Asp Phe Leu Gln Asn Asn Ala Leu Leu
660 665 670

Glu Phe Lys Asn Ser Gly Lys Lys Ser Ala Asp His
675 680

<210> 174

<211> 499

<212> PRT

<213> Homo sapien

<400> 174

Met Ser Gly His Ser Pro Thr Arg Gly Ala Met Gln Val Ala Met Asn
1 5 10 15

Gly Lys Ala Arg Lys Glu Ala Val Gln Thr Ala Ala Lys Glu Leu Leu
20 25 30

Lys Phe Val Asn Arg Ser Pro Ser Pro Phe His Ala Val Ala Glu Cys
35 40 45

Arg Asn Arg Leu Leu Gln Ala Gly Phe Ser Glu Leu Lys Glu Thr Glu
50 55 60

Lys Trp Asn Ile Lys Pro Glu Ser Lys Tyr Phe Met Thr Arg Asn Ser
65 70 75 80

Ser Thr Ile Ile Ala Phe Ala Val Gly Gly Gln Tyr Val Pro Gly Asn
85 90 95

Gly Phe Ser Leu Ile Gly Ala His Thr Asp Ser Pro Cys Leu Arg Val
100 105 110

Lys Arg Arg Ser Arg Arg Ser Gln Val Gly Phe Gln Gln Val Gly Val
115 120 125

Glu Thr Tyr Gly Gly Gly Ile Trp Ser Thr Trp Phe Asp Arg Asp Leu
130 135 140

Thr Leu Ala Gly Arg Val Ile Val Lys Cys Pro Thr Ser Gly Arg Leu
145 150 155 160

Glu Gln Gln Leu Val His Val Glu Arg Pro Ile Leu Arg Ile Pro His
165 170 175

Leu Ala Ile His Leu Gln Arg Asn Ile Asn Glu Asn Phe Gly Pro Asn
180 185 190

Thr Glu Met His Leu Val Pro Ile Leu Ala Thr Ala Ile Gln Glu Glu
195 200 205

Leu Glu Lys Gly Thr Pro Glu Pro Gly Pro Leu Asn Ala Val Asp Glu
210 215 220

Arg His His Ser Val Leu Met Ser Leu Leu Cys Ala His Leu Gly Leu
225 230 235 240

Ser Pro Lys Asp Ile Val Glu Met Glu Leu Cys Leu Ala Asp Thr Gln
245 250 255

Pro Ala Val Leu Gly Gly Ala Tyr Asp Glu Phe Ile Phe Ala Pro Arg
260 265 270

Leu Asp Asn Leu His Ser Cys Phe Cys Ala Leu Gln Ala Leu Ile Asp
275 280 285

Ser Cys Ala Gly Pro Gly Ser Leu Ala Thr Glu Pro His Val Arg Met
290 295 300

Val Thr Leu Tyr Asp Asn Glu Glu Val Gly Ser Glu Ser Ala Gln Gly
305 310 315 320

Ala Gln Ser Leu Leu Thr Glu Leu Val Leu Arg Arg Ile Ser Ala Ser
325 330 335

Cys Gln His Pro Thr Ala Phe Glu Glu Ala Ile Pro Lys Ser Phe Met
340 345 350

Ile Ser Ala Asp Met Ala His Ala Val His Pro Asn Tyr Leu Asp Lys
355 360 365

His Glu Glu Asn His Arg Pro Leu Phe His Lys Gly Pro Val Ile Lys
370 375 380

Val Ala Lys Ala Pro Thr Cys Arg Pro Tyr Gly Leu Leu Gln Pro Phe
385 390 395 400

Gly Asp Ala Ile Lys Thr Leu His Gln Arg Ala Leu Lys Pro Ala Asn
 405 410 415

Leu Pro Ser Thr Phe Lys Ser Thr Ala Asp Leu Ala Phe Asn Ile Val
 420 425 430

Leu Leu Leu Lys Pro Pro Ser Ile Ala Glu Pro Arg Val Asn Tyr Thr
 435 440 445

Lys Val Tyr Leu Leu Arg Pro Leu Arg Ala Gly Thr His Pro Cys Gln
 450 455 460

Gly Gly Thr Ala Ala Val Ala Gly Asp Ala Pro His Ser Ser Pro Ile
 465 470 475 480

Leu Ser Ala Thr Arg Ala Ala Gln Lys His Lys Gln Gln Gly Ala Arg
 485 490 495

Arg Arg Met

<210> 175
 <211> 407
 <212> PRT
 <213> Homo sapien

<400> 175

Gly Ala Gly Gln Ala Ala Arg Trp Gly Arg Ala Glu Pro Gly Gly Gln
 1 5 10 15

Met Ser Gly His Ser Pro Thr Arg Gly Ala Met Gln Val Ala Met Asn
 20 25 30

Gly Lys Ala Arg Lys Glu Ala Val Gln Thr Ala Ala Lys Glu Leu Leu
 35 40 45

Lys Phe Val Asn Arg Ser Pro Ser Pro Phe His Ala Val Ala Glu Cys
 50 55 60

Arg Asn Arg Leu Leu Gln Ala Gly Phe Ser Glu Leu Lys Glu Thr Glu
 65 70 75 80

Lys Trp Asn Ile Lys Pro Glu Ser Lys Tyr Phe Met Thr Arg Asn Ser
 85 90 95

Ser Thr Ile Ile Ala Phe Ala Val Gly Gly Gln Tyr Val Pro Gly Asn

100	105	110
Gly Phe Ser Leu Ile Gly Ala His Thr Asp Ser Pro Cys Leu Arg Val 115 120 125		
Lys Arg Arg Ser Arg Arg Ser Gln Val Gly Phe Gln Gln Val Gly Val 130 135 140		
Glu Thr Tyr Gly Gly Gly Ile Trp Ser Thr Trp Phe Asp Arg Asp Leu 145 150 155 160		
Thr Leu Ala Gly Arg Val Ile Val Lys Cys Pro Thr Ser Gly Arg Leu 165 170 175		
Glu Gln Gln Leu Val His Val Glu Arg Pro Ile Leu Arg Ile Pro His 180 185 190		
Leu Ala Ile His Leu Gln Arg Asn Ile Asn Glu Asn Phe Gly Pro Asn 195 200 205		
Thr Glu Met His Leu Val Pro Ile Leu Ala Thr Ala Ile Gln Glu Glu 210 215 220		
Leu Glu Lys Gly Thr Pro Glu Pro Gly Pro Leu Asn Ala Val Asp Glu 225 230 235 240		
Arg His His Ser Val Leu Met Ser Leu Leu Cys Ala His Leu Gly Leu 245 250 255		
Ser Pro Lys Asp Ile Val Glu Met Glu Leu Cys Leu Ala Asp Thr Gln 260 265 270		
Pro Ala Val Leu Gly Gly Ala Tyr Asp Glu Phe Ile Phe Ala Pro Arg 275 280 285		
Leu Asp Asn Leu His Ser Cys Phe Cys Ala Leu Gln Ala Leu Ile Asp 290 295 300		
Ser Cys Ala Gly Pro Gly Ser Leu Ala Thr Glu Pro His Val Arg Met 305 310 315 320		
Val Thr Leu Tyr Asp Asn Glu Glu Val Gly Ser Glu Ser Ala Gln Gly 325 330 335		
Ala Gln Ser Leu Leu Thr Glu Leu Val Leu Arg Arg Ile Ser Ala Ser 340 345 350		

Cys Gln His Pro Thr Ala Phe Glu Glu Ala Ile Pro Lys Ser Phe Met
355 360 365

Ile Ser Ala Asp Met Ala His Ala Val His Pro Asn Tyr Leu Asp Lys
370 375 380

His Glu Glu Asn His Arg Pro Leu Phe His Lys Gly Pro Val Ile Lys
385 390 395 400

Val Ala Lys Ala Pro Thr Leu
405

<210> 176
<211> 31
<212> PRT
<213> Homo sapien

<400> 176

Met His Leu Ile Thr Asp Asp Glu Ala Pro Tyr Arg Thr Pro Pro Pro
1 5 10 15

Ser Asn Ala His Val Gln Arg Ser Ile Asn Ala Leu Ile Asp Tyr
20 25 30

<210> 177
<211> 69
<212> PRT
<213> Homo sapien

<400> 177

Gly Thr Ala Asn Cys Asn Pro Val Pro Ala Ser Val Asn Glu Val Ile
1 5 10 15

Phe Ile Phe Pro Ser Ile His Met Phe Ile Tyr Tyr Leu Tyr Gly Cys
20 25 30

Phe Pro Thr Lys Trp Gln Ser Trp Ala Val Ala Ile Asp Thr Ile Trp
35 40 45

Ala Ala Lys Pro Lys Ile Phe Ser Ile Trp Pro Phe Thr Glu Lys Val
50 55 60

Cys Leu Pro Leu Ser
65

<210> 178

<211> 89
 <212> PRT
 <213> Homo sapien

<400> 178

Thr Ser Thr Ala Gln Cys Ala Gly Ile Arg Leu Ser Ser Gly Ala Arg
 1 5 10 15

Ala Gly Thr Val Asn Asn Asp Glu Gly Glu Trp Ser Gly Pro Pro Pro
 20 25 30

Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys Val Pro Pro Thr Val Gln
 35 40 45

Lys Pro Thr Thr Val Asn Val Pro Thr Thr Glu Val Ser Pro Thr Ser
 50 55 60

Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro Asn Ala Gln Ala Thr Arg
 65 70 75 80

Ser Thr Ser Ala Ala Thr Thr Leu Ser
 85

<210> 179
 <211> 86
 <212> PRT
 <213> Homo sapien

<400> 179

Tyr Gly Ala Val Cys Gly Ile Arg Phe Arg Ala Ala Pro Gly Ser Thr
 1 5 10 15

Val Asn Asn Asp Glu Gly Glu Trp Ser Gly Pro Pro Pro Glu Cys Arg
 20 25 30

Gly Lys Ser Leu Thr Ser Lys Val Pro Pro Thr Val Gln Lys Pro Thr
 35 40 45

Thr Val Asn Val Pro Thr Thr Glu Val Ser Pro Thr Ser Gln Lys Thr
 50 55 60

Thr Thr Lys Thr Thr Thr Pro Asn Ala Gln Ala Thr Arg Ser Thr Ser
 65 70 75 80

Ala Ala Thr Thr Leu Ser
 85

<210> 180
 <211> 404
 <212> PRT
 <213> Homo sapien

<400> 180

Met Leu Lys Thr Ala Ser Ala Ala Leu Thr Trp Gly Leu Gly Pro Asp
 1 5 10 15

Pro Ala Trp Ser His Pro Ala Gln Lys Thr Gly Pro Pro Val Pro Val
 20 25 30

Thr His Cys Ser Tyr Gly Ala Arg Gly Phe Trp Cys Trp Gly Pro Pro
 35 40 45

Cys Arg Trp Gly Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Lys
 50 55 60

Pro Val Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu
 65 70 75 80

Pro Met Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg
 85 90 95

Gly Ala Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala
 100 105 110

Gly Gln Ala Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu
 115 120 125

Asp Lys Leu Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg
 130 135 140

Met Lys Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala
 145 150 155 160

Thr Pro Leu Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly
 165 170 175

Pro Met Gln Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val
 180 185 190

Met His Leu Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu
 195 200 205

Lys Gly Ser Phe Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu
 210 215 220

Thr Ile Asp Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu
225 230 235 240

Phe Glu Met Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro
245 250 255

Pro Lys Val Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala
260 265 270

Val His Pro Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr
275 280 285

Leu Pro Leu Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe
290 295 300

Pro Asn Gly Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn
305 310 315 320

Cys Ser Gly Lys Gln Trp His Cys Ala Ser Val Arg Gly Pro Gly Arg
325 330 335

Thr Arg Lys Val Glu Gly Gln Glu Val Pro Ser Glu Ala His Gly Thr
340 345 350

Arg Thr Pro Arg Met Ala Ala Pro Gly Gly Ser Asp Val Val Met Arg
355 360 365

Pro Ala Leu Tyr Pro Ser Thr His Leu Cys Ile Pro Ile Cys Pro Phe
370 375 380

Ile Ile Ser Pro Leu Thr Cys Thr His Ile Cys Ser Leu Ile Arg Gln
385 390 395 400

Ser Phe His Leu

<210> 181
<211> 371
<212> PRT
<213> Homo sapien

<400> 181

Leu Thr Ala Val Met Val Pro Ala Ala Ser Gly Val Gly Asp Leu Arg
1 5 10 15

Ala Val Gly Gly Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Lys Pro
 20 25 30

Val Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro
 35 40 45

Met Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly
 50 55 60

Ala Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly
 65 70 75 80

Gln Ala Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp
 85 90 95

Lys Leu Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met
 100 105 110

Lys Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr
 115 120 125

Pro Leu Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro
 130 135 140

Met Gln Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met
 145 150 155 160

His Leu Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys
 165 170 175

Gly Ser Phe Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr
 180 185 190

Ile Asp Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe
 195 200 205

Glu Met Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro
 210 215 220

Lys Val Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val
 225 230 235 240

His Pro Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu
 245 250 255

Pro Leu Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro

260 265 270
 Asn Gly Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys
 275 280 285
 Ser Gly Lys Gln Trp His Cys Ala Ser Val Arg Gly Pro Gly Arg Thr
 290 295 300
 Arg Lys Val Glu Gly Gln Glu Val Pro Ser Glu Ala His Gly Thr Arg
 305 310 315 320
 Thr Pro Arg Met Ala Ala Pro Gly Gly Ser Asp Val Val Met Arg Pro
 325 330 335
 Ala Leu Tyr Pro Ser Thr His Leu Cys Ile Pro Ile Cys Pro Phe Ile
 340 345 350
 Ile Ser Pro Leu Thr Cys Thr His Ile Cys Ser Leu Ile Arg Gln Ser
 355 360 365
 Phe His Leu
 370
 <210> 182
 <211> 102
 <212> PRT
 <213> Homo sapien
 <400> 182
 Ile Leu His Gly Pro Leu Gly Gln Gly Ser His Gly Gln Arg Leu His
 1 5 10 15
 Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe
 20 25 30
 Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp
 35 40 45
 Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met Ser
 50 55 60
 Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser
 65 70 75 80
 Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp
 85 90 95

Leu Gly Pro Val Pro Met
100

<210> 183
<211> 102
<212> PRT
<213> Homo sapien

<400> 183

Glu Gln Gln Arg Arg Ser Ser Thr Ser Cys Gln Pro His Thr Ala Thr
1 5 10 15

Ala Phe Leu Leu Pro Ser Ala Pro Ser Pro Ser Pro Ile Ser His Pro
20 25 30

Val Pro His Pro Met Arg Pro Trp Cys Leu Ala Leu Ser Ser Pro Leu
35 40 45

Asp Lys Thr Asn Gln Val Gly Thr Ala Asp Asn Asn Ala Ala Arg Pro
50 55 60

Cys Cys Pro Ile Ser Ile Cys Gln Gln Gly Arg Glu Val Pro Gly Ser
65 70 75 80

Gly Gln Lys Leu Asp Arg Ser Pro Phe Leu Thr Ser Gln Gln Pro Pro
85 90 95

Thr Gln Gly Ser Lys Thr
100

<210> 184
<211> 273
<212> PRT
<213> Homo sapien

<400> 184

Met Glu Gly Val Leu Cys Pro Ala Gly Trp Trp Leu Arg Pro Gln Ala
1 5 10 15

Cys Ala Gln Gly Arg Trp Gln His Ser Glu Ala Thr Ser Thr Ala Glu
20 25 30

Leu Ala Val Glu Ile Val Tyr Val Val Pro Ser Val Ala Glu Ser Leu
35 40 45

Pro Ala Pro His Trp Leu Ser Thr Gln Gly Phe Gln Asn Leu Glu Lys
50 55 60

Gly Ala Val Phe Trp Ser Trp Ser Cys Gly Val Pro Cys Ala Ser Met
 65 70 75 80
 Gly Trp Val Cys Ala Gln Ala Ala Leu Pro Trp Lys Cys Gly Cys Gly
 85 90 95
 Tyr Gly Leu Gly Val Trp Asp Pro Arg Gln Pro Lys Trp Glu Gln Gly
 100 105 110
 Arg Pro Val Gly Lys Gly Gly Ser Gly Leu Val Gly Ser Ala Ala Pro
 115 120 125
 Arg Cys Pro Phe Ser Val Gln Arg Gly Ser Asp Glu Leu Phe Ser Thr
 130 135 140
 Cys Val Thr Asn Gly Pro Phe Ile Met Ser Ser Asn Ser Ala Ser Ala
 145 150 155 160
 Ala Asn Gly Asn Asp Ser Lys Lys Phe Lys Gly Asp Ser Arg Ser Ala
 165 170 175
 Gly Val Pro Ser Arg Val Ile His Ile Arg Lys Leu Pro Ile Asp Val
 180 185 190
 Thr Glu Gly Glu Val Ile Ser Leu Gly Leu Pro Phe Gly Lys Val Thr
 195 200 205
 Asn Leu Leu Met Leu Lys Gly Lys Asn Gln Ala Phe Ile Glu Met Asn
 210 215 220
 Thr Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr
 225 230 235 240
 Pro Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Leu Cys Ala Leu
 245 250 255
 Ser Thr Ala Pro Ala Ser Cys Pro Gly Gly Ser Pro Arg Ile Pro Phe
 260 265 270
 Pro

<210> 185
 <211> 227
 <212> PRT

<213> Homo sapien

<400> 185

Glu Pro Pro Ser Pro Thr Leu Ala Glu Tyr Pro Gly Leu Pro Glu Phe
 1 5 10 15

Gly Lys Arg Ser Ser Val Leu Val Val Glu Leu Trp Gly Ala Val Arg
 20 25 30

Val His Gly Leu Gly Leu Arg Ser Gly Cys Pro Ala Val Glu Val Trp
 35 40 45

Val Trp Val Trp Val Gly Gly Leu Gly Pro Gln Ala Ala Gln Val Gly
 50 55 60

Ala Gly Pro Ala Gly Gly Glu Gly Arg Leu Trp Pro Gly Gly Lys Cys
 65 70 75 80

Ser Ser Ala Leu Ser Leu Leu Leu Gln Arg Gly Ser Asp Glu Leu Phe
 85 90 95

Ser Thr Cys Val Thr Asn Gly Pro Phe Ile Met Ser Ser Asn Ser Ala
 100 105 110

Ser Ala Ala Asn Gly Asn Asp Ser Lys Lys Phe Lys Gly Asp Ser Arg
 115 120 125

Ser Ala Gly Val Pro Ser Arg Val Ile His Ile Arg Lys Leu Pro Ile
 130 135 140

Asp Val Thr Glu Gly Glu Val Ile Ser Leu Gly Leu Pro Phe Gly Lys
 145 150 155 160

Val Thr Asn Leu Leu Met Leu Lys Gly Lys Asn Gln Ala Phe Ile Glu
 165 170 175

Met Asn Thr Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser
 180 185 190

Val Thr Pro Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Leu Cys
 195 200 205

Ala Leu Ser Thr Ala Pro Ala Ser Cys Pro Gly Gly Ser Pro Arg Ile
 210 215 220

Pro Phe Pro

225

<210> 186
 <211> 452
 <212> PRT
 <213> Homo sapien

<400> 186

Met Lys Ala Trp Phe Phe Pro Phe Ser Ile Arg Arg Leu Val Thr Phe
 1 5 10 15

Pro Lys Gly Ser Pro Arg Glu Met Thr Ser Pro Ser Val Thr Ser Met
 20 25 30

Gly Leu Phe Arg Arg Leu His Ser Val Pro Arg Gly Ser Ala Leu Cys
 35 40 45

Ala Met Asp Gly Ile Val Pro Asp Ile Ala Val Gly Thr Lys Arg Gly
 50 55 60

Ser Asp Glu Leu Phe Ser Thr Cys Val Thr Asn Gly Pro Phe Ile Met
 65 70 75 80

Ser Ser Asn Ser Ala Ser Ala Ala Asn Gly Asn Asp Ser Lys Lys Phe
 85 90 95

Lys Gly Asp Ser Arg Ser Ala Gly Val Pro Ser Arg Val Ile His Ile
 100 105 110

Arg Lys Leu Pro Ile Asp Val Thr Glu Gly Glu Val Ile Ser Leu Gly
 115 120 125

Leu Pro Phe Gly Lys Val Thr Asn Leu Leu Met Leu Lys Gly Lys Asn
 130 135 140

Gln Val Pro Glu Pro Arg Phe Ser Gly Val Leu Ile Thr Val Gln Ala
 145 150 155 160

Gly Thr Arg Arg Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile
 165 170 175

Glu Met Asn Thr Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr
 180 185 190

Ser Val Thr Pro Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser
 195 200 205

Asn His Lys Glu Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala
 210 215 220

Gln Ala Ala Leu Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala
 225 230 235 240

Leu Ala Ala Ser Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly
 245 250 255

Gln Ser Pro Val Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val
 260 265 270

Thr Leu Asp Val Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu
 275 280 285

Lys Ile Ile Thr Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln
 290 295 300

Tyr Ala Asp Pro Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly
 305 310 315 320

Gln Asn Ile Tyr Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys
 325 330 335

Leu Thr Ser Leu Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr
 340 345 350

Thr Arg Pro Asp Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln
 355 360 365

Thr Met Ala Ala Ala Phe Ala Ser Pro Tyr Ala Gly Ala Gly Phe Pro
 370 375 380

Pro Thr Phe Ala Ile Pro Gln Ala Ala Gly Tyr Ser Asn Ala Trp Ser
 385 390 395 400

Trp Phe Pro Ser Asp Cys Met Pro Thr Pro Pro Ser Gln Ala Ala Pro
 405 410 415

His Pro Arg Arg Gln Pro Gly Arg Thr Gly His Ser Ser Ala Arg Ser
 420 425 430

Gly Ala Leu Pro Gly Arg Gly Asp Ala Thr Ser Thr Glu Gln Ala Trp
 435 440 445

Pro Gly Gln Trp
450

<210> 187
<211> 304
<212> PRT
<213> Homo sapien

<400> 187

Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
1 5 10 15

Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
20 25 30

Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
35 40 45

Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu
50 55 60

Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu
65 70 75 80

Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser
85 90 95

Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val
100 105 110

Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val
115 120 125

Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr
130 135 140

Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro
145 150 155 160

Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr
165 170 175

Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu
180 185 190

Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp
195 200 205

Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala
 210 215 220

Ala Phe Ala Ser Pro Tyr Ala Gly Ala Gly Phe Pro Pro Thr Phe Ala
 225 230 235 240

Ile Pro Gln Ala Ala Gly Tyr Ser Asn Ala Trp Ser Trp Phe Pro Ser
 245 250 255

Asp Cys Met Pro Thr Pro Pro Ser Gln Ala Ala Pro His Pro Arg Arg
 260 265 270

Gln Pro Gly Arg Thr Gly His Ser Ser Ala Arg Ser Gly Ala Leu Pro
 275 280 285

Gly Arg Gly Asp Ala Thr Ser Thr Glu Gln Ala Trp Pro Gly Gln Trp
 290 295 300

<210> 188
 <211> 606
 <212> PRT
 <213> Homo sapien

<400> 188

Met Lys Ala Trp Phe Phe Pro Phe Ser Ile Arg Arg Leu Val Thr Phe
 1 5 10 15

Pro Lys Gly Ser Pro Arg Glu Met Thr Ser Pro Ser Val Thr Ser Met
 20 25 30

Gly Leu Phe Arg Arg Leu His Ser Val Pro Arg Gly Ser Ala Leu Cys
 35 40 45

Ala Met Asp Gly Ile Val Pro Asp Ile Ala Val Gly Thr Lys Arg Gly
 50 55 60

Ser Asp Glu Leu Phe Ser Thr Cys Val Thr Asn Gly Pro Phe Ile Met
 65 70 75 80

Ser Ser Asn Ser Ala Ser Ala Ala Asn Gly Asn Asp Ser Lys Lys Phe
 85 90 95

Lys Gly Asp Ser Arg Ser Ala Gly Val Pro Ser Arg Val Ile His Ile
 100 105 110

Arg Lys Leu Pro Ile Asp Val Thr Glu Gly Glu Val Ile Ser Leu Gly
 115 120 125

Leu Pro Phe Gly Lys Val Thr Asn Leu Leu Met Leu Lys Gly Lys Asn
 130 135 140

Gln Val Pro Glu Pro Arg Phe Ser Gly Val Leu Thr Pro Cys Arg Arg
 145 150 155 160

Gly Arg Gly Gly Pro Ser Ala His Cys Leu Pro Asn Glu Ala Phe Ile
 165 170 175

Glu Met Asn Thr Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr
 180 185 190

Ser Val Thr Pro Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser
 195 200 205

Asn His Lys Glu Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala
 210 215 220

Gln Ala Ala Leu Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala
 225 230 235 240

Leu Ala Ala Ser Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly
 245 250 255

Gln Ser Pro Val Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val
 260 265 270

Thr Leu Asp Val Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu
 275 280 285

Lys Ile Ile Thr Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln
 290 295 300

Tyr Ala Asp Pro Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly
 305 310 315 320

Gln Asn Ile Tyr Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys
 325 330 335

Leu Thr Ser Leu Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr
 340 345 350

Thr Arg Pro Asp Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln

355	360	365
Thr Met Ala Ala Ala Phe Gly Tyr Arg Gly Cys Pro Thr Arg Arg Gln		
370	375	380
Cys Ala Glu Trp Ser Ile Arg Ala Ala Gln Ser Gly Ala Pro Ala Ala		
385	390	395
Arg Ala Arg Pro Cys Thr Arg Val Met His Leu Leu Leu Ser Ala Arg		
405	410	415
Pro Ala Gln His Gly Pro Val Ser Pro Thr Ser Gly Pro Arg Pro Pro		
420	425	430
Leu Glu Gln Arg Ile Cys Pro Arg Arg Leu Cys Arg Gly Arg Pro Pro		
435	440	445
Ala Gly Leu Gly Pro Ile Pro Gln His Ser Ala Arg Ser Leu Val Glu		
450	455	460
Val Val Gly Ala Met Ile Ser Val Ser Phe Ile Ser Arg Cys Thr Trp		
465	470	475
Tyr Asn Leu Ser Leu Ser Val Cys Arg Ser Trp Phe Pro Ser His Leu		
485	490	495
Cys His Ser Ser Ser Cys Arg Val Phe Lys Arg Leu Val Leu Val Pro		
500	505	510
Gln Arg Leu His Ala His Thr Thr Phe Pro Gly Ser Ser Ala Ser Thr		
515	520	525
Ala Ala Ala Trp Ala Asp Trp Ala Leu Glu Cys Gln Val Arg Gly Pro		
530	535	540
Ser Arg Glu Arg Gly Arg His Val His Arg Ala Gly Leu Ala Arg Ala		
545	550	555
Val Val Gly Gln Gly Cys Gly Gly Pro Arg Val Asp Gly Ala Ser Gln		
565	570	575
Lys Pro Leu Ile Ala Gln Ser Leu Trp Ser Gly Ser Leu Gln Ala Pro		
580	585	590
Pro Gly Glu Arg Glu Asp Arg Gln Trp Leu Glu Gly Cys Leu		
595	600	605

<210> 189
<211> 227
<212> PRT
<213> Homo sapien

<400> 189

Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
1 5 10 15

Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
20 25 30

Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
35 40 45

Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu
50 55 60

Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu
65 70 75 80

Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser
85 90 95

Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val
100 105 110

Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val
115 120 125

Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr
130 135 140

Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro
145 150 155 160

Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr
165 170 175

Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu
180 185 190

Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp
195 200 205

Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala
 210 215 220

Ala Phe Gly
 225

<210> 190
 <211> 432
 <212> PRT
 <213> Homo sapien

<400> 190

Met Lys Ala Trp Phe Phe Pro Phe Ser Ile Arg Arg Leu Val Thr Phe
 1 5 10 15

Pro Lys Gly Ser Pro Arg Glu Met Thr Ser Pro Ser Val Thr Ser Met
 20 25 30

Gly Leu Phe Arg Arg Leu His Ser Val Pro Arg Gly Ser Ala Leu Cys
 35 40 45

Ala Met Asp Gly Ile Val Pro Asp Ile Ala Val Gly Thr Lys Arg Gly
 50 55 60

Ser Asp Glu Leu Phe Ser Thr Cys Val Thr Asn Gly Pro Phe Ile Met
 65 70 75 80

Ser Ser Asn Ser Ala Ser Ala Ala Asn Gly Asn Asp Ser Lys Lys Phe
 85 90 95

Lys Gly Asp Ser Arg Ser Ala Gly Val Pro Ser Arg Val Ile His Ile
 100 105 110

Arg Lys Leu Pro Ile Asp Val Thr Glu Gly Glu Val Ile Ser Leu Gly
 115 120 125

Leu Pro Phe Gly Lys Val Thr Asn Leu Leu Met Leu Lys Gly Lys Asn
 130 135 140

Gln Val Pro Glu Pro Arg Phe Ser Gly Val Leu Ile Thr Val Gln Ala
 145 150 155 160

Gly Thr Arg Arg Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile
 165 170 175

Glu Met Asn Thr Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr
 180 185 190

Ser Val Thr Pro Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser
 195 200 205

Asn His Lys Glu Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala
 210 215 220

Gln Ala Ala Leu Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala
 225 230 235 240

Leu Ala Ala Ser Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly
 245 250 255

Gln Ser Pro Val Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val
 260 265 270

Thr Leu Asp Val Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu
 275 280 285

Lys Ile Ile Thr Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln
 290 295 300

Tyr Ala Asp Pro Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly
 305 310 315 320

Gln Asn Ile Tyr Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys
 325 330 335

Leu Thr Ser Leu Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr
 340 345 350

Thr Arg Pro Asp Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln
 355 360 365

Thr Met Ala Ala Ala Phe Gly Leu Ser Val Pro Asn Val His Gly Ala
 370 375 380

Leu Ala Pro Leu Ala Ile Pro Ser Ala Ala Ala Ala Ala Ala Ala
 385 390 395 400

Gly Arg Ile Ala Ile Pro Gly Leu Ala Gly Ala Gly Asn Ser Val Leu
 405 410 415

Leu Val Ser Asn Leu Asn Pro Glu Ala Ser Thr Val Thr Cys Ser Ala
 420 425 430

<210> 191
<211> 284
<212> PRT
<213> Homo sapien

<400> 191

Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
1 5 10 15

Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
20 25 30

Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
35 40 45

Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu
50 55 60

Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu
65 70 75 80

Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser
85 90 95

Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val
100 105 110

Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val
115 120 125

Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr
130 135 140

Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro
145 150 155 160

Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr
165 170 175

Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu
180 185 190

Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp
195 200 205

Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala

210 215 220
 Ala Phe Gly Leu Ser Val Pro Asn Val His Gly Ala Leu Ala Pro Leu
 225 230 235 240
 Ala Ile Pro Ser Ala Ala Ala Ala Ala Ala Ala Gly Arg Ile Ala
 245 250 255
 Ile Pro Gly Leu Ala Gly Ala Gly Asn Ser Val Leu Leu Val Ser Asn
 260 265 270
 Leu Asn Pro Glu Ala Ser Thr Val Thr Cys Ser Ala
 275 280
 <210> 192
 <211> 304
 <212> PRT
 <213> Homo sapien
 <400> 192
 Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
 1 5 10 15
 Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
 20 25 30
 Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
 35 40 45
 Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu
 50 55 60
 Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu
 65 70 75 80
 Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser
 85 90 95
 Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val
 100 105 110
 Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val
 115 120 125
 Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr
 130 135 140

Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro
145 150 155 160

Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr
165 170 175

Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu
180 185 190

Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp
195 200 205

Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala
210 215 220

Ala Phe Ala Ser Pro Tyr Ala Gly Ala Gly Phe Pro Pro Thr Phe Ala
225 230 235 240

Ile Pro Gln Ala Ala Gly Tyr Ser Asn Ala Trp Ser Trp Phe Pro Ser
245 250 255

Asp Cys Met Pro Thr Pro Pro Ser Gln Ala Ala Pro His Pro Arg Arg
260 265 270

Gln Pro Gly Arg Thr Gly His Ser Ser Ala Arg Ser Gly Ala Leu Pro
275 280 285

Gly Arg Gly Asp Ala Thr Ser Thr Glu Gln Ala Trp Pro Gly Gln Trp
290 295 300

<210> 193
<211> 304
<212> PRT
<213> Homo sapien

<400> 193

Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
1 5 10 15

Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
20 25 30

Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
35 40 45

Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu

50		55		60
Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu				
65		70		75
Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser				
	85		90	95
Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val				
	100		105	110
Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val				
	115		120	125
Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr				
	130		135	140
Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro				
	145		150	155
Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr				
	165		170	175
Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu				
	180		185	190
Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp				
	195		200	205
Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala				
	210		215	220
Ala Phe Ala Ser Pro Tyr Ala Gly Ala Gly Phe Pro Pro Thr Phe Ala				
	225		230	235
Ile Pro Gln Ala Ala Gly Tyr Ser Asn Ala Trp Ser Trp Phe Pro Ser				
	245		250	255
Asp Cys Met Pro Thr Pro Pro Ser Gln Ala Ala Pro His Pro Arg Arg				
	260		265	270
Gln Pro Gly Arg Thr Gly His Ser Ser Ala Arg Ser Gly Ala Leu Pro				
	275		280	285
Gly Arg Gly Asp Ala Thr Ser Thr Glu Gln Ala Trp Pro Gly Gln Trp				
	290		295	300

<210> 194
 <211> 304
 <212> PRT
 <213> Homo sapien

<400> 194

Ala Ala Phe Leu Arg Gly Ala His Thr Val Gln Ala Gly Thr Arg Arg
 1 5 10 15

Ala Gln Arg Ser Leu Pro Pro Gln Gln Ala Phe Ile Glu Met Asn Thr
 20 25 30

Glu Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro
 35 40 45

Val Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu
 50 55 60

Leu Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu
 65 70 75 80

Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser
 85 90 95

Ala Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val
 100 105 110

Leu Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val
 115 120 125

Leu His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr
 130 135 140

Phe Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro
 145 150 155 160

Val Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr
 165 170 175

Asn Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu
 180 185 190

Asn Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp
 195 200 205

Leu Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala
 210 215 220

Ala Phe Ala Ser Pro Tyr Ala Gly Ala Gly Phe Pro Pro Thr Phe Ala
 225 230 235 240

Ile Pro Gln Ala Ala Gly Tyr Ser Asn Ala Trp Ser Trp Phe Pro Ser
 245 250 255

Asp Cys Met Pro Thr Pro Pro Ser Gln Ala Ala Pro His Pro Arg Arg
 260 265 270

Gln Pro Gly Arg Thr Gly His Ser Ser Ala Arg Ser Gly Ala Leu Pro
 275 280 285

Gly Arg Gly Asp Ala Thr Ser Thr Glu Gln Ala Trp Pro Gly Gln Trp
 290 295 300

<210> 195
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 195

Met Arg Ser Val Gln Ala Gly Leu Ser Ser Gln Glu Ser Leu Ser Pro
 1 5 10 15

Val Leu Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr
 20 25 30

Phe Ser Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr
 35 40 45

Gly Ala Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly
 50 55 60

Gly Ser Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly
 65 70 75 80

Gly Met Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala
 85 90 95

Gly Met Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn
 100 105 110

Asp Arg Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu
 115 120 125

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Asn Arg Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly
 130                      135                      140

Pro Gln Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu
145                      150                      155                      160

Arg Ala Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu
                      165                      170                      175

Gln Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr
                      180                      185                      190

Glu Thr Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly
                      195                      200                      205

Leu Arg Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu
210                      215                      220

Thr Glu Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn
225                      230                      235                      240

His Glu Glu Asp Arg Thr Ala Ala Thr Ser Pro Asp Ala Ser Ser Gly
                      245                      250                      255

Leu Pro Arg Arg Gln Asn Ala Pro Asn Thr Gly Thr Gly Arg Pro Gly
                      260                      265                      270

Asp Ser Ala Arg Asp Glu Trp Ser Arg Pro Arg Gly Glu Gly Arg Gln
275                      280                      285

Asn Gly Glu Pro Arg Pro Lys Arg Ser Val Asn Glu Pro Val Glu Arg
290                      295                      300

Pro Gly Ser Asp Asp Ser Gly His Gly Gly Thr
305                      310                      315

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<210> 196

<211> 296

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (245)..(245)

<223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (250)..(251)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (253)..(254)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (257)..(258)
 <223> X=any amino acid

<400> 196

His Arg Ser Val Gln Ala Gly Leu Ser Ser Gln Glu Ser Leu Ser Pro
 1 5 10 15

Val Leu Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr
 20 25 30

Phe Ser Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr
 35 40 45

Gly Ala Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly
 50 55 60

Gly Ser Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly
 65 70 75 80

Gly Met Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala
 85 90 95

Gly Met Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn
 100 105 110

Asp Arg Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu
 115 120 125

Asn Arg Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly
 130 135 140

Pro Gln Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu
 145 150 155 160

Arg Ala Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu

	165		170		175
Gln Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr					
	180		185		190
Glu Thr Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly					
	195		200		205
Leu Arg Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu					
	210		215		220
Thr Glu Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn					
	225		230		235
His Glu Glu Asp Xaa Thr Gly Leu Gln Xaa Xaa Met Xaa Xaa Leu Gly					
	245		250		255
Xaa Xaa Glu Glu Met Pro Pro Thr Pro Gly Leu Ala Asp Gln Ala Thr					
	260		265		270
Arg Gln Glu Thr Ser Gly Arg Asp Arg Gly Glu Lys Val Ala Arg Met					
	275		280		285
Gly Ser His Gly Pro Ser Gly Val					
	290		295		
<210> 197					
<211> 267					
<212> PRT					
<213> Homo sapien					
<400> 197					
Met Ser Phe Thr Thr Arg Ser Thr Phe Ser Thr Asn Tyr Arg Ser Leu					
1	5		10		15
Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala Arg Pro Val Ser Ser Ala					
	20		25		30
Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser Gly Ser Arg Ile Ser Val					
	35		40		45
Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser Gly Gly Leu Ala					
	50		55		60
Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly Gly Ile Gln Asn Glu					
	65		70		75
					80

Lys Glu Thr Met Gln Ser Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
85 90 95

Arg Val Arg Ser Leu Glu Thr Glu Asn Arg Arg Leu Glu Ser Lys Ile
100 105 110

Arg Glu His Leu Glu Lys Lys Gly Pro Gln Val Arg Asp Trp Ser His
115 120 125

Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala Gln Ile Phe Ala Asn Thr
130 135 140

Val Asp Asn Ala Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu Ala
145 150 155 160

Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr Glu Leu Ala Met Arg Gln
165 170 175

Ser Val Glu Asn Asp Ile His Gly Leu Arg Lys Val Ile Asp Asp Thr
180 185 190

Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu Ile Glu Ala Leu Lys Glu
195 200 205

Glu Leu Leu Phe Met Lys Lys Asn His Glu Glu Glu Val Lys Gly Leu
210 215 220

Gln Ala Gln Ile Ala Ser Ser Gly Val Asp Arg Gly Gly Arg Cys Pro
225 230 235 240

Gln Ile Ser Gly Pro Arg Gln Asp His Gly Arg His Ser Gly Pro Asn
245 250 255

Met Thr Ser Trp Leu Gly Arg Thr Glu Arg Ser
260 265

<210> 198
<211> 454
<212> PRT
<213> Homo sapien

<400> 198

Lys Ala Ala Ser Arg Ala Asn Asn Thr Cys Cys Pro Cys Pro Cys Pro
1 5 10 15

Val Gly His Pro Val Ser Gly Gly Met Ser Phe Thr Thr Arg Ser Thr

Leu Thr Val Glu Val Asp Ala Pro Lys Ser Gln Asp Leu Ala Lys Ile
260 265 270

Met Ala Asp Ile Arg Ala Gln Tyr Asp Glu Leu Ala Arg Lys Asn Arg
 275 280 285

Glu Glu Leu Asp Lys Tyr Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr
 290 295 300

Val Val Thr Thr Gln Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu
 305 310 315 320

Thr Glu Leu Arg Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser
 325 330 335

Met Arg Asn Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu
 340 345 350

Ala Arg Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His
 355 360 365

Leu Glu Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala
 370 375 380

Gln Glu Tyr Glu Ala Leu Leu Asn Ile Lys Val Lys Leu Glu Ala Glu
 385 390 395 400

Ile Ala Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe Asn Leu
 405 410 415

Gly Asp Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile Gln Lys Thr
 420 425 430

Thr Thr Arg Arg Ile Val Asp Gly Lys Val Val Ser Glu Thr Asn Asp
 435 440 445

Thr Lys Val Leu Arg His
 450

<210> 199
 <211> 104
 <212> PRT
 <213> Homo sapien

<400> 199

Met Leu Glu Thr Lys Trp Ser Leu Leu Gln Gln Gln Lys Thr Ala Arg
 1 5 10 15

Ser Asn Met Asp Asn Met Phe Glu Ser Tyr Ile Asn Asn Leu Arg Arg
20 25 30

Gln Leu Glu Thr Leu Gly Gln Glu Lys Leu Lys Leu Glu Ala Glu Leu
35 40 45

Gly Asn Met Gln Gly Leu Val Glu Asp Phe Lys Asn Lys Ser Glu Gln
50 55 60

Leu Pro Pro Ser Thr Gln Leu Lys Ser Pro Cys Ser Pro Pro Pro Leu
65 70 75 80

Gly Thr Leu Gly Leu Ser Pro His Gly Pro Leu Leu Trp Ala Val Gln
85 90 95

Ser Tyr Leu Ile Arg Val Thr Thr
100

<210> 200
<211> 768
<212> PRT
<213> Homo sapien

<400> 200

Met Gly Gly Ala Glu Arg Gly Arg Ala Pro Ala Phe Leu Leu Arg Ser
1 5 10 15

Ala Pro Val Ser Ala Gly Gly Gly Gly Ala Tyr Ile Thr Cys Ala Ala
20 25 30

Pro Leu Leu Arg Glu Asp Val Ala Cys Ser Leu Ala Pro Gly Glu Ser
35 40 45

Pro Arg Leu Pro Arg Glu Leu Gly Glu Arg Asn Trp Arg Arg Ser Thr
50 55 60

Pro Gly Gly Ser Ala Leu Gln His Glu Pro Ile Ser Ser Arg Ser Arg
65 70 75 80

Ser Arg Arg Pro Gly Arg Gly Ala Ala Ser Glu Asp Glu Asn Gly Asp
85 90 95

Asp Gln Gly Phe Gln Glu Gly Glu Asp Glu Leu Gly Asp Glu Glu Glu
100 105 110

Gly Ala Gly Asp Glu Asn Gly His Gly Glu Gln Gln Pro Gln Pro Pro
115 120 125

Ala Thr Gln Gln Gln Gln Pro Gln Gln Gln Arg Gly Ala Ala Lys Glu
130 135 140

Ala Ala Gly Lys Ser Ser Gly Pro Thr Ser Leu Phe Ala Val Thr Val
145 150 155 160

Ala Pro Pro Gly Ala Arg Gln Gly Gln Gln Gln Ala Gly Gly Asp Gly
165 170 175

Lys Thr Glu Gln Lys Gly Gly Asp Lys Lys Arg Gly Val Lys Arg Pro
180 185 190

Arg Glu Asp His Gly Arg Gly Tyr Phe Glu Tyr Ile Glu Glu Asn Lys
195 200 205

Tyr Ser Arg Ala Lys Ser Pro Gln Pro Pro Val Glu Glu Glu Asp Glu
210 215 220

His Phe Asp Asp Thr Val Val Cys Leu Asp Thr Tyr Asn Cys Asp Leu
225 230 235 240

His Phe Lys Ile Ser Arg Asp Arg Leu Ser Ala Ser Ser Leu Thr Met
245 250 255

Glu Ser Phe Ala Phe Leu Trp Ala Gly Gly Arg Ala Ser Tyr Gly Val
260 265 270

Ser Lys Gly Lys Val Cys Phe Glu Met Lys Val Thr Glu Lys Ile Pro
275 280 285

Val Arg His Leu Tyr Thr Lys Asp Ile Asp Ile His Glu Val Arg Ile
290 295 300

Gly Trp Ser Leu Thr Thr Ser Gly Met Leu Leu Gly Glu Glu Glu Phe
305 310 315 320

Ser Tyr Gly Tyr Ser Leu Lys Gly Ile Lys Thr Cys Asn Cys Glu Thr
325 330 335

Glu Asp Tyr Gly Glu Lys Phe Asp Glu Asn Asp Val Ile Thr Cys Phe
340 345 350

Ala Asn Phe Glu Ser Asp Glu Val Glu Leu Ser Tyr Ala Lys Asn Gly
355 360 365

Gln Asp Leu Gly Val Ala Phe Lys Ile Ser Lys Glu Val Leu Ala Gly
 370 375 380

Arg Pro Leu Phe Pro His Val Leu Cys His Asn Cys Ala Val Glu Phe
 385 390 395 400

Asn Phe Gly Gln Lys Glu Lys Pro Tyr Phe Pro Ile Pro Glu Glu Tyr
 405 410 415

Thr Phe Ile Gln Asn Val Pro Leu Glu Asp Arg Val Arg Gly Pro Lys
 420 425 430

Gly Pro Glu Glu Lys Lys Asp Cys Glu Val Val Met Met Ile Gly Leu
 435 440 445

Pro Gly Ala Gly Lys Thr Thr Trp Val Thr Lys His Ala Ala Glu Asn
 450 455 460

Pro Gly Lys Tyr Asn Ile Leu Gly Thr Asn Thr Ile Met Asp Lys Met
 465 470 475 480

Met Val Ala Gly Phe Lys Lys Gln Met Ala Asp Thr Gly Lys Leu Asn
 485 490 495

Thr Leu Leu Gln Arg Ala Pro Gln Cys Leu Gly Lys Phe Ile Glu Ile
 500 505 510

Ala Ala Arg Lys Lys Arg Asn Phe Ile Leu Asp Gln Thr Asn Val Ser
 515 520 525

Ala Ala Ala Gln Arg Arg Lys Met Cys Leu Phe Ala Gly Phe Gln Arg
 530 535 540

Lys Ala Val Val Val Cys Pro Lys Asp Glu Asp Tyr Lys Gln Arg Thr
 545 550 555 560

Gln Lys Lys Ala Glu Val Glu Gly Lys Asp Leu Pro Glu His Ala Val
 565 570 575

Leu Lys Met Lys Gly Asn Phe Thr Leu Pro Glu Val Ala Glu Cys Phe
 580 585 590

Asp Glu Ile Thr Tyr Val Glu Leu Gln Lys Glu Glu Ala Gln Lys Leu
 595 600 605

Leu Glu Gln Tyr Lys Glu Glu Ser Lys Lys Ala Leu Pro Pro Glu Lys
610 615 620

Lys Gln Asn Thr Gly Ser Lys Lys Ser Asn Lys Asn Lys Ser Gly Lys
625 630 635 640

Asn Gln Phe Asn Arg Gly Gly Gly His Arg Gly Arg Gly Gly Phe Asn
645 650 655

Met Arg Gly Gly Asn Phe Arg Gly Gly Ala Pro Gly Asn Arg Gly Gly
660 665 670

Tyr Asn Arg Arg Gly Asn Met Pro Gln Arg Gly Gly Gly Gly Gly Gly
675 680 685

Ser Gly Gly Ile Gly Tyr Pro Tyr Pro Arg Ala Pro Val Phe Pro Gly
690 695 700

Arg Gly Ser Tyr Ser Asn Arg Gly Asn Tyr Asn Arg Gly Gly Met Pro
705 710 715 720

Asn Arg Gly Asn Tyr Asn Gln Asn Phe Arg Gly Arg Gly Asn Asn Arg
725 730 735

Gly Tyr Lys Asn Gln Ser Gln Gly Tyr Asn Gln Trp Gln Gln Gly Gln
740 745 750

Phe Trp Gly Gln Lys Pro Trp Ser Gln His Tyr His Gln Gly Tyr Tyr
755 760 765

<210> 201

<211> 793

<212> PRT

<213> Homo sapien

<400> 201

Ile Gly Ser Ala Leu Arg Gly Leu His Arg Ala Leu Gly Pro Gly Ser
1 5 10 15

Ala Trp Gly Arg Gly Gly Lys Tyr Gly Asn Gly Arg Gly Arg Ala Arg
20 25 30

Ala Arg Ser Gly Phe Pro Pro Ala Gln Cys Ser Arg Gln Arg Arg Gly
35 40 45

Arg Gly Ala Tyr Ile Thr Cys Ala Ala Pro Leu Leu Arg Glu Asp Val
50 55 60

Ala Cys Ser Leu Ala Pro Gly Glu Ser Pro Arg Leu Pro Arg Glu Leu
 65 70 75 80

Gly Glu Arg Asn Trp Arg Arg Ser Thr Pro Gly Gly Ser Ala Leu Gln
 85 90 95

His Glu Pro Ile Ser Ser Arg Ser Arg Ser Arg Arg Pro Gly Arg Gly
 100 105 110

Ala Ala Ser Glu Asp Glu Asn Gly Asp Asp Gln Gly Phe Gln Glu Gly
 115 120 125

Glu Asp Glu Leu Gly Asp Glu Glu Glu Gly Ala Gly Asp Glu Asn Gly
 130 135 140

His Gly Glu Gln Gln Pro Gln Pro Pro Ala Thr Gln Gln Gln Gln Pro
 145 150 155 160

Gln Gln Gln Arg Gly Ala Ala Lys Glu Ala Ala Gly Lys Ser Ser Gly
 165 170 175

Pro Thr Ser Leu Phe Ala Val Thr Val Ala Pro Pro Gly Ala Arg Gln
 180 185 190

Gly Gln Gln Gln Ala Gly Gly Asp Gly Lys Thr Glu Gln Lys Gly Gly
 195 200 205

Asp Lys Lys Arg Gly Val Lys Arg Pro Arg Glu Asp His Gly Arg Gly
 210 215 220

Tyr Phe Glu Tyr Ile Glu Glu Asn Lys Tyr Ser Arg Ala Lys Ser Pro
 225 230 235 240

Gln Pro Pro Val Glu Glu Glu Asp Glu His Phe Asp Asp Thr Val Val
 245 250 255

Cys Leu Asp Thr Tyr Asn Cys Asp Leu His Phe Lys Ile Ser Arg Asp
 260 265 270

Arg Leu Ser Ala Ser Ser Leu Thr Met Glu Ser Phe Ala Phe Leu Trp
 275 280 285

Ala Gly Gly Arg Ala Ser Tyr Gly Val Ser Lys Gly Lys Val Cys Phe
 290 295 300

Glu Met Lys Val Thr Glu Lys Ile Pro Val Arg His Leu Tyr Thr Lys
 305 310 315 320

Asp Ile Asp Ile His Glu Val Arg Ile Gly Trp Ser Leu Thr Thr Ser
 325 330 335

Gly Met Leu Leu Gly Glu Glu Glu Phe Ser Tyr Gly Tyr Ser Leu Lys
 340 345 350

Gly Ile Lys Thr Cys Asn Cys Glu Thr Glu Asp Tyr Gly Glu Lys Phe
 355 360 365

Asp Glu Asn Asp Val Ile Thr Cys Phe Ala Asn Phe Glu Ser Asp Glu
 370 375 380

Val Glu Leu Ser Tyr Ala Lys Asn Gly Gln Asp Leu Gly Val Ala Phe
 385 390 395 400

Lys Ile Ser Lys Glu Val Leu Ala Gly Arg Pro Leu Phe Pro His Val
 405 410 415

Leu Cys His Asn Cys Ala Val Glu Phe Asn Phe Gly Gln Lys Glu Lys
 420 425 430

Pro Tyr Phe Pro Ile Pro Glu Glu Tyr Thr Phe Ile Gln Asn Val Pro
 435 440 445

Leu Glu Asp Arg Val Arg Gly Pro Lys Gly Pro Glu Glu Lys Lys Asp
 450 455 460

Cys Glu Val Val Met Met Ile Gly Leu Pro Gly Ala Gly Lys Thr Thr
 465 470 475 480

Trp Val Thr Lys His Ala Ala Glu Asn Pro Gly Lys Tyr Asn Ile Leu
 485 490 495

Gly Thr Asn Thr Ile Met Asp Lys Met Met Val Ala Gly Phe Lys Lys
 500 505 510

Gln Met Ala Asp Thr Gly Lys Leu Asn Thr Leu Leu Gln Arg Ala Pro
 515 520 525

Gln Cys Leu Gly Lys Phe Ile Glu Ile Ala Ala Arg Lys Lys Arg Asn
 530 535 540

Phe Ile Leu Asp Gln Thr Asn Val Ser Ala Ala Ala Gln Arg Arg Lys
 545 550 555 560

Met Cys Leu Phe Ala Gly Phe Gln Arg Lys Ala Val Val Val Cys Pro
 565 570 575

Lys Asp Glu Asp Tyr Lys Gln Arg Thr Gln Lys Lys Ala Glu Val Glu
 580 585 590

Gly Lys Asp Leu Pro Glu His Ala Val Leu Lys Met Lys Gly Asn Phe
 595 600 605

Thr Leu Pro Glu Val Ala Glu Cys Phe Asp Glu Ile Thr Tyr Val Glu
 610 615 620

Leu Gln Lys Glu Glu Ala Gln Lys Leu Leu Glu Gln Tyr Lys Glu Glu
 625 630 635 640

Ser Lys Lys Ala Leu Pro Pro Glu Lys Lys Gln Asn Thr Gly Ser Lys
 645 650 655

Lys Ser Asn Lys Asn Lys Ser Gly Lys Asn Gln Phe Asn Arg Gly Gly
 660 665 670

Gly His Arg Gly Arg Gly Gly Phe Asn Met Arg Gly Gly Asn Phe Arg
 675 680 685

Gly Gly Ala Pro Gly Asn Arg Gly Gly Tyr Asn Arg Arg Gly Asn Met
 690 695 700

Pro Gln Arg Gly Gly Gly Gly Gly Gly Ser Gly Gly Ile Gly Tyr Pro
 705 710 715 720

Tyr Pro Arg Ala Pro Val Phe Pro Gly Arg Gly Ser Tyr Ser Asn Arg
 725 730 735

Gly Asn Tyr Asn Arg Gly Gly Met Pro Asn Arg Gly Asn Tyr Asn Gln
 740 745 750

Asn Phe Arg Gly Arg Gly Asn Asn Arg Gly Tyr Lys Asn Gln Ser Gln
 755 760 765

Gly Tyr Asn Gln Trp Gln Gln Gly Gln Phe Trp Gly Gln Lys Pro Trp
 770 775 780

Ser Gln His Tyr His Gln Gly Tyr Tyr

785

790

<210> 202
 <211> 325
 <212> PRT
 <213> Homo sapien

<400> 202

Met Ile Phe Arg Asp Phe Ile Phe Ala Gln Val Ile Ser Lys Tyr Glu
 1 5 10 15

Asp Ile Phe Phe Val Phe Phe Gln Val Gly Cys Leu Lys Phe Phe Pro
 20 25 30

Phe Phe Ile Pro Leu Pro Lys Ala Asn Glu Lys Lys Val Asp Gln Pro
 35 40 45

Pro Glu Ala Lys Lys Pro Lys Ile Lys Val Val Asn Val Glu Leu Pro
 50 55 60

Ile Glu Ala Asn Leu Val Trp Gln Leu Gly Lys Asp Leu Leu Asn Met
 65 70 75 80

Tyr Ile Glu Thr Glu Gly Lys Met Ile Met Gln Asp Lys Leu Glu Lys
 85 90 95

Glu Arg Asn Asp Ala Lys Asn Ala Val Glu Glu Tyr Val Tyr Glu Phe
 100 105 110

Arg Asp Lys Leu Cys Gly Pro Tyr Glu Lys Phe Ile Cys Glu Gln Asp
 115 120 125

His Gln Asn Phe Leu Arg Leu Leu Thr Glu Thr Glu Asp Trp Leu Tyr
 130 135 140

Glu Glu Gly Glu Asp Gln Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu
 145 150 155 160

Glu Leu Met Lys Ile Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala
 165 170 175

Glu Glu Arg Pro Lys Met Phe Glu Glu Leu Gly Gln Arg Leu Gln His
 180 185 190

Tyr Ala Lys Ile Ala Ala Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn
 195 200 205

His Ile Asp Glu Ser Glu Met Lys Lys Val Glu Lys Ser Val Asn Glu
 210 215 220

Val Met Glu Trp Met Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser
 225 230 235 240

Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile
 245 250 255

Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro
 260 265 270

Lys Ile Glu Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile
 275 280 285

Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu
 290 295 300

Pro Pro His Gln Asn Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val
 305 310 315 320

Asn Met Asp Leu Asp
 325

<210> 203
 <211> 131
 <212> PRT
 <213> Homo sapien

<400> 203

Met Lys Val Gln Asn Arg Arg Asn Ala His Leu Ser Ser Phe Asp Arg
 1 5 10 15

Phe Ala Phe Leu Trp Glu Met Gln Phe Arg Val Thr Cys Cys Arg Arg
 20 25 30

Tyr Val Val Asp His Leu Asp Ile Ile Ala Glu Asp Glu Leu Leu Asp
 35 40 45

Gln Leu Leu Ser His Thr Ala Ser Leu Ser Asp Leu Leu Gln Asn Ser
 50 55 60

Val Val Ala Thr Ala Gln Thr Arg Leu Arg Ser Tyr Ser Cys Ala Ser
 65 70 75 80

Leu Arg Phe Ser Ser Ala Thr Met Ser Asp Lys Pro Asp Met Ala Glu

85 90 95

Ile Glu Lys Phe Asp Lys Ser Lys Leu Lys Lys Thr Glu Thr Gln Glu
100 105 110

Lys Asn Pro Leu Pro Ser Lys Glu Thr Ile Glu Gln Glu Lys Gln Ala
115 120 125

Gly Glu Ser
130

<210> 204
<211> 116
<212> PRT
<213> Homo sapien

<400> 204

Ser Leu Arg Leu Pro Trp Glu Met Gln Phe Arg Val Thr Cys Cys Arg
1 5 10 15

Arg Tyr Val Val Asp His Leu Asp Ile Ile Ala Glu Asp Glu Leu Leu
20 25 30

Asp Gln Leu Leu Ser His Thr Ala Ser Leu Ser Asp Leu Leu Gln Asn
35 40 45

Ser Val Val Ala Thr Ala Gln Thr Arg Leu Arg Ser Tyr Ser Cys Ala
50 55 60

Ser Leu Arg Phe Ser Ser Ala Thr Met Ser Asp Lys Pro Asp Met Ala
65 70 75 80

Glu Ile Glu Lys Phe Asp Lys Ser Lys Leu Lys Lys Thr Glu Thr Gln
85 90 95

Glu Lys Asn Pro Leu Pro Ser Lys Glu Thr Ile Glu Gln Glu Lys Gln
100 105 110

Ala Gly Glu Ser
115

<210> 205
<211> 63
<212> PRT
<213> Homo sapien

<400> 205

Met Cys Leu Gly Val Cys Ser Phe Arg Cys Ser Asp Met Ser Arg Val
1 5 10 15

Ser Ser Phe Gln Trp Val Arg Gly Leu Thr Asp Phe Arg Asn Glu Ala
20 25 30

Ala Tyr Ala His Ala Pro Gln Lys Ser Ser Pro Ser Pro His Ser Thr
35 40 45

Gln Glu Val Leu Leu Ser Ser Pro Val Thr Ser Tyr Trp Gly Gly
50 55 60

<210> 206

<211> 97

<212> PRT

<213> Homo sapien

<400> 206

Cys Val Ser Glu Phe Val Pro Ser Asp Val Gln Ile Cys Pro Glu Phe
1 5 10 15

Leu Pro Ser Ser Gly Phe Val Val Ser Leu Thr Ser Gly Met Lys Leu
20 25 30

His Thr Leu Thr Leu His Arg Lys Val Leu Gln Val Pro Thr Arg Pro
35 40 45

Arg Lys Ser Cys Cys Leu His Leu Ser Pro Ala Thr Gly Glu Ala Glu
50 55 60

Ala Gly Glu Ser Leu Glu Pro Arg Arg Trp Arg Leu Leu Gly Ala Lys
65 70 75 80

Pro Arg Ser Arg His Tyr Thr Pro Ala Trp Gln Gln Ser Glu Thr Pro
85 90 95

Ser

<210> 207

<211> 163

<212> PRT

<213> Homo sapien

<400> 207

Met Asn Gly Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr
1 5 10 15

Ala Ala Ile Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile
20 25 30

Arg Lys Trp Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala
35 40 45

Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu
50 55 60

Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys
65 70 75 80

Ala Asn Asn Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu
85 90 95

Ser Ser Pro Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe
100 105 110

Asn Pro Lys Ser Ser Lys Gln Ala Lys Asp Val Phe Pro Pro Cys Ala
115 120 125

Gln Ser Ser Ser Pro Ser Ser Arg Pro Leu Val Leu Glu Ala Pro Val
130 135 140

Asp Leu Leu Val Leu Pro Arg Gly Leu Arg Trp Val Leu Gly Trp Pro
145 150 155 160

Leu Leu Ala

<210> 208
<211> 283
<212> PRT
<213> Homo sapien

<400> 208

Arg Leu Gly Thr Arg Leu Gly Val Ala Pro Leu Pro Val Gly Thr Thr
1 5 10 15

Ala Val Ala Ala Gly Arg Gly Val Gly Gly Ser Val Gly Phe Cys Leu
20 25 30

Thr Val Gly Val Arg Ala Val Gln Leu Pro Ala Met Ala Glu Leu Asp
35 40 45

Pro Phe Gly Ala Pro Ala Gly Ala Pro Gly Gly Pro Ala Leu Gly Asn

50 55 60
 Gly Val Ala Gly Ala Gly Glu Glu Asp Pro Ala Ala Ala Phe Leu Ala
 65 70 75 80
 Gln Gln Glu Ser Glu Ile Ala Gly Ile Glu Asn Asp Glu Ala Phe Ala
 85 90 95
 Ile Leu Asp Gly Gly Ala Pro Gly Pro Gln Pro His Gly Glu Pro Pro
 100 105 110
 Gly Gly Pro Asp Ala Val Asp Gly Val Met Asn Gly Glu Tyr Tyr Gln
 115 120 125
 Glu Ser Asn Gly Pro Thr Asp Ser Tyr Ala Ala Ile Ser Gln Val Asp
 130 135 140
 Arg Leu Gln Ser Glu Pro Glu Ser Ile Arg Lys Trp Arg Glu Glu Gln
 145 150 155 160
 Met Glu Arg Leu Glu Ala Leu Asp Ala Asn Ser Arg Lys Gln Glu Ala
 165 170 175
 Glu Trp Lys Glu Lys Ala Ile Lys Glu Leu Glu Glu Trp Tyr Ala Arg
 180 185 190
 Gln Asp Glu Gln Leu Gln Lys Thr Lys Ala Asn Asn Arg Ala Ala Glu
 195 200 205
 Glu Ala Phe Val Asn Asp Ile Asp Glu Ser Ser Pro Gly Thr Glu Trp
 210 215 220
 Glu Arg Val Ala Arg Leu Cys Asp Phe Asn Pro Lys Ser Ser Lys Gln
 225 230 235 240
 Ala Lys Asp Val Ser Arg Met Arg Ser Val Leu Ile Ser Leu Lys Gln
 245 250 255
 Ala Ala Gly Ala Gly Gly Pro Val Asp Leu Leu Val Leu Pro Arg Gly
 260 265 270
 Leu Arg Trp Val Leu Gly Trp Pro Leu Leu Ala
 275 280
 <210> 209
 <211> 222

<212> PRT

<213> Homo sapien

<400> 209

Met Ala Glu Leu Asp Pro Phe Gly Ala Pro Ala Gly Ala Pro Gly Gly
1 5 10 15

Pro Ala Leu Gly Asn Gly Val Ala Gly Ala Gly Glu Glu Asp Pro Ala
20 25 30

Ala Ala Phe Leu Ala Gln Gln Glu Ser Glu Ile Ala Gly Ile Glu Asn
35 40 45

Asp Glu Ala Phe Ala Ile Leu Asp Gly Ala Ala Pro Pro Gly Pro Ser
50 55 60

Arg Thr Ala Ser Arg Arg Gly Val Arg Met Gln Glu Ser Asn Gly Pro
65 70 75 80

Thr Asp Ser Tyr Ala Ala Ile Ser Gln Val Asp Arg Leu Gln Ser Glu
85 90 95

Pro Glu Ser Ile Arg Lys Trp Arg Glu Glu Gln Met Glu Arg Leu Glu
100 105 110

Ala Leu Asp Ala Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys
115 120 125

Ala Ile Lys Glu Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu
130 135 140

Gln Lys Thr Lys Ala Asn Asn Arg Ala Ala Glu Glu Ala Phe Val Asn
145 150 155 160

Asp Ile Asp Glu Ser Ser Pro Gly Thr Glu Trp Glu Arg Val Ala Arg
165 170 175

Leu Cys Asp Phe Asn Pro Lys Ser Ser Lys Gln Ala Lys Asp Val Phe
180 185 190

Pro Pro Cys Ala Gln Ser Ser Ser Pro Ser Ser Arg Pro Arg Trp Cys
195 200 205

Thr Glu Glu Pro Pro Cys Gly Asn Thr Thr Ser Ala Ile Ser
210 215 220

<210> 210
 <211> 250
 <212> PRT
 <213> Homo sapien

<400> 210

Asn Arg Thr Arg Gly Ala Leu Val Leu Leu Ser Gln Ser Ala Pro Gln
 1 5 10 15

Arg Trp Leu Pro Gly Val Val Ser Val Gly Arg Leu Val Phe Val Ser
 20 25 30

Pro Leu Val Ser Val Pro Phe Ser Cys Pro Pro Trp Leu Ser Trp Ile
 35 40 45

Arg Ser Ala Pro Leu Pro Ala Pro Leu Ala Val Pro Arg Trp Gly Thr
 50 55 60

Glu Trp Pro Ala Pro Ala Lys Lys Thr Arg Leu Arg Pro Ser Trp Arg
 65 70 75 80

Ser Lys Arg Ala Arg Leu Arg Ala Ser Arg Thr Thr Arg Pro Ser Pro
 85 90 95

Ser Trp Thr Ala Ala Pro Pro Gly Pro Ser Arg Thr Ala Ser Arg Arg
 100 105 110

Gly Val Arg Met Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr Ala Ala
 115 120 125

Ile Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile Arg Lys
 130 135 140

Trp Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala Asn Ser
 145 150 155 160

Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu Leu Glu
 165 170 175

Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys Ala Asn
 180 185 190

Asn Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu Ser Ser
 195 200 205

Pro Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe Asn Pro
 210 215 220

Lys Ser Ser Lys Gln Ala Lys Asp Val Ser Arg Met Arg Ser Val Leu
 225 230 235 240

Ile Ser Leu Lys Gln Ala Pro Leu Val His
 245 250

<210> 211
 <211> 142
 <212> PRT
 <213> Homo sapien

<400> 211

Ser Ser Arg Ser Arg Ala Ala Ala Arg Asp Leu Glu Pro Asp Ala Trp
 1 5 10 15

Gly Ala Cys Pro Pro Leu Pro Val Gly Thr Thr Ala Val Ala Ala Gly
 20 25 30

Arg Gly Val Gly Gly Ser Val Gly Phe Cys Leu Thr Val Gly Val Arg
 35 40 45

Ala Val Gln Leu Pro Ala Met Ala Glu Leu Asp Pro Phe Gly Ala Pro
 50 55 60

Ala Gly Ala Pro Gly Gly Pro Ala Leu Gly Asn Gly Val Ala Gly Ala
 65 70 75 80

Gly Glu Glu Asp Pro Ala Ala Ala Phe Leu Ala Gln Gln Glu Ser Glu
 85 90 95

Ile Ala Gly Ile Glu Asn Asp Glu Ala Phe Ala Ile Leu Asp Gly Ala
 100 105 110

Ala Pro Pro Gly Pro Ser Arg Thr Ala Ser Arg Arg Gly Val Arg Met
 115 120 125

Pro Ile Leu Gly Ser Lys Lys Gln Ser Gly Lys Lys Arg Gln
 130 135 140

<210> 212
 <211> 220
 <212> PRT
 <213> Homo sapien

<400> 212

Ser Ser Arg Ser Arg Ala Ala Ala Arg Asp Leu Glu Pro Asp Ala Trp

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1              5              10              15

Gly Ala Cys Pro Pro Leu Pro Val Gly Thr Thr Ala Val Ala Ala Gly
      20              25              30

Arg Gly Val Gly Gly Ser Val Gly Phe Cys Leu Thr Val Gly Val Arg
      35              40              45

Ala Val Gln Leu Pro Ala Met Ala Glu Leu Asp Pro Phe Gly Ala Pro
      50              55              60

Ala Gly Ala Pro Gly Gly Pro Ala Leu Gly Asn Gly Val Ala Gly Ala
      65              70              75              80

Gly Glu Glu Asp Pro Ala Ala Ala Phe Leu Ala Gln Gln Glu Ser Glu
      85              90              95

Ile Ala Gly Ile Glu Asn Asp Glu Ala Phe Ala Ile Leu Asp Gly Gly
      100              105              110

Ala Pro Gly Pro Gln Pro His Gly Glu Pro Pro Gly Gly Pro Asp Ala
      115              120              125

Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu
      130              135              140

Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys
      145              150              155              160

Ala Asn Asn Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu
      165              170              175

Ser Ser Pro Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe
      180              185              190

Asn Pro Lys Ser Ser Lys Gln Ala Lys Asp Val Ser Arg Met Arg Ser
      195              200              205

Val Leu Ile Ser Leu Lys Gln Ala Pro Leu Val His
      210              215              220

<210> 213
<211> 111
<212> PRT
<213> Homo sapien

<400> 213

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Met Asn Gly Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr
1 5 10 15

Ala Ala Ile Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile
20 25 30

Arg Lys Trp Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala
35 40 45

Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu
50 55 60

Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys
65 70 75 80

Ala Asn Asn Arg Val Ala Asp Glu Ala Phe Tyr Lys Gln Pro Phe Ala
85 90 95

Asp Val Ile Gly Tyr Val Gln Gly Ser Arg Arg Ser Leu Cys Lys
100 105 110

<210> 214
<211> 236
<212> PRT
<213> Homo sapien

<400> 214

Gly Phe Arg Phe Thr Arg Leu Pro Pro Gly Ala Cys Pro Pro Leu Pro
1 5 10 15

Val Gly Thr Thr Ala Val Ala Ala Gly Arg Gly Val Gly Gly Ser Val
20 25 30

Gly Phe Cys Leu Thr Val Gly Val Arg Ala Val Gln Leu Pro Ala Met
35 40 45

Ala Glu Leu Asp Pro Phe Gly Ala Pro Ala Gly Ala Pro Gly Gly Pro
50 55 60

Ala Leu Gly Asn Gly Val Ala Gly Ala Gly Glu Glu Asp Pro Ala Ala
65 70 75 80

Ala Phe Leu Ala Gln Gln Glu Ser Glu Ile Ala Gly Ile Glu Asn Asp
85 90 95

Glu Ala Phe Ala Ile Leu Asp Gly Gly Ala Pro Gly Pro Gln Pro His

100 105 110
 Gly Glu Pro Pro Gly Gly Pro Asp Ala Val Asp Gly Val Met Asn Gly
 115 120 125
 Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr Ala Ala Ile
 130 135 140
 Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile Arg Lys Trp
 145 150 155 160
 Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala Asn Ser Arg
 165 170 175
 Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu Leu Glu Glu
 180 185 190
 Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys Ala Asn Asn
 195 200 205
 Arg Val Ala Asp Glu Ala Phe Tyr Lys Gln Pro Phe Ala Asp Val Ile
 210 215 220
 Gly Tyr Val Gln Gly Ser Arg Arg Ser Leu Cys Lys
 225 230 235
 <210> 215
 <211> 211
 <212> PRT
 <213> Homo sapien
 <400> 215
 Met Asn Gly Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr
 1 5 10 15
 Ala Ala Ile Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile
 20 25 30
 Arg Lys Trp Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala
 35 40 45
 Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu
 50 55 60
 Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys
 65 70 75 80

Ser Ser Pro Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe
100 105 110

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Asn Pro Lys Ser Ser Lys Gln Ala Lys Asp Val Phe Pro Pro Cys Ala
      115                      120                125

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Gln Ser Ser Ser Pro Ser Ser Arg Pro Val Gly Asp Glu Glu His Leu
130 135 140

Trp Lys Thr Asn Leu Ile Phe Ile Tyr Gln Gly Ser Leu Ser Met Ile
145 150 155 160

Tyr Val Glu Val Leu Glu Asn Leu Cys Ser Ser Val Leu Leu Val Gly
165 170 175

Phe Ser Lys Gly Ser Gly Lys Arg Gly Arg Lys Gly Ala Lys Arg Trp
180 185 190

Phe Lys Phe Gly Arg Lys Lys Lys Gly Leu Gly Cys Phe Val Gly Leu
195 200 205

Lys Phe Ile
210

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<210> 216
<211> 263
<212> PRT
<213> Homo sapien
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<220>
<221> MISC_FEATURE
<222> (263)..(263)
<223> X=any amino acid

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<400> 216

Gly Phe Arg Phe Thr Arg Leu Pro Pro Gly Ala Cys Pro Pro Leu Pro
1 5 10 15

Val	Gly	Thr	Thr	Ala	Val	Ala	Ala	Gly	Arg	Gly	Val	Gly	Gly	Ser	Val
			20					25					30		

Gly Phe Cys Leu Thr Val Gly Val Arg Ala Val Gln Leu Pro Ala Met
35 40 45

Ala Glu Leu Asp Pro Phe Gly Ala Pro Ala Gly Ala Pro Gly Gly Pro
50 55 60

Ala Leu Gly Asn Gly Val Ala Gly Ala Gly Glu Glu Asp Pro Ala Ala
65 70 75 80

Ala Phe Leu Ala Gln Gln Glu Ser Glu Ile Ala Gly Ile Glu Asn Asp
85 90 95

Glu Ala Phe Ala Ile Leu Asp Gly Gly Ala Pro Gly Pro Gln Pro His
100 105 110

Gly Glu Pro Pro Gly Gly Pro Asp Ala Val Asp Gly Val Met Asn Gly
115 120 125

Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr Ala Ala Ile
130 135 140

Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile Arg Lys Trp
145 150 155 160

Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala Asn Ser Arg
165 170 175

Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu Leu Glu Glu
180 185 190

Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys Ala Asn Asn
195 200 205

Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu Ser Ser Pro
210 215 220

Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe Asn Pro Lys
225 230 235 240

Ser Ser Lys Gln Ala Lys Asp Val Ser Arg Met Arg Ser Val Leu Ile
245 250 255

Ser Leu Lys Gln Ala Arg Xaa
260

<210> 217

<211> 150

<212> PRT

<213> Homo sapien

<400> 217

Met Asn Gly Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr
 1 5 10 15

Ala Ala Ile Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile
 20 25 30

Arg Lys Trp Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala
 35 40 45

Asn Ser Arg Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu
 50 55 60

Leu Glu Glu Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys
 65 70 75 80

Ala Asn Asn Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu
 85 90 95

Ser Ser Pro Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe
 100 105 110

Asn Pro Lys Ser Ser Lys Arg Ala Arg Cys Phe Pro Met Ala Gln Thr
 115 120 125

His Ser Ser Arg Arg Pro Val Cys Leu Arg Ala Pro Val Glu Pro Thr
 130 135 140

Leu Ile Phe Ile Tyr Gln
 145 150

<210> 218

<211> 269

<212> PRT

<213> Homo sapien

<400> 218

Gly Phe Arg Phe Thr Arg Leu Pro Pro Gly Ala Cys Pro Pro Leu Pro
 1 5 10 15

Val Gly Thr Thr Ala Val Ala Ala Gly Arg Gly Val Gly Gly Ser Val
 20 25 30

Gly Phe Cys Leu Thr Val Gly Val Arg Ala Val Gln Leu Pro Ala Met
 35 40 45

Ala Glu Leu Asp Pro Phe Gly Ala Pro Ala Gly Ala Pro Gly Gly Pro
 50 55 60

Ala Leu Gly Asn Gly Val Ala Gly Ala Gly Glu Glu Asp Pro Ala Ala
 65 70 75 80

Ala Phe Leu Ala Gln Gln Glu Ser Glu Ile Ala Gly Ile Glu Asn Asp
 85 90 95

Glu Ala Phe Ala Ile Leu Asp Gly Gly Ala Pro Gly Pro Gln Pro His
 100 105 110

Gly Glu Pro Pro Gly Gly Pro Asp Ala Val Asp Gly Val Met Asn Gly
 115 120 125

Glu Tyr Tyr Gln Glu Ser Asn Gly Pro Thr Asp Ser Tyr Ala Ala Ile
 130 135 140

Ser Gln Val Asp Arg Leu Gln Ser Glu Pro Glu Ser Ile Arg Lys Trp
 145 150 155 160

Arg Glu Glu Gln Met Glu Arg Leu Glu Ala Leu Asp Ala Asn Ser Arg
 165 170 175

Lys Gln Glu Ala Glu Trp Lys Glu Lys Ala Ile Lys Glu Leu Glu Glu
 180 185 190

Trp Tyr Ala Arg Gln Asp Glu Gln Leu Gln Lys Thr Lys Ala Asn Asn
 195 200 205

Arg Ala Ala Glu Glu Ala Phe Val Asn Asp Ile Asp Glu Ser Ser Pro
 210 215 220

Gly Thr Glu Trp Glu Arg Val Ala Arg Leu Cys Asp Phe Asn Pro Lys
 225 230 235 240

Ser Ser Lys Arg Ala Arg Cys Phe Pro Met Ala Gln Ser His Ser Ser
 245 250 255

Arg Arg Pro Val Cys Leu Arg Ala Leu Trp Asn Leu His
 260 265

<210> 219

<211> 152

<212> PRT

<213> Homo sapien

<400> 219

Met Lys Ala Leu Ile Val Leu Gly Leu Val Leu Leu Ser Val Thr Val
 1 5 10 15

Gln Gly Lys Val Phe Glu Arg Cys Glu Leu Ala Arg Thr Leu Lys Arg
 20 25 30

Leu Gly Met Asp Gly Tyr Arg Gly Ile Ser Leu Ala Asn Trp Met Cys
 35 40 45

Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Arg Ala Thr Asn Tyr Asn
 50 55 60

Ala Gly Asp Arg Ser Thr Asp Tyr Gly Ile Phe Gln Ile Asn Ser Arg
 65 70 75 80

Tyr Trp Cys Asn Asp Gly Lys Thr Pro Gly Ala Val Asn Ala Cys His
 85 90 95

Leu Ser Cys Ser Ala Leu Leu Gln Asp Asn Ile Ala Asp Ala Val Ala
 100 105 110

Cys Ala Lys Arg Val Val Arg Asp Pro Gln Gly Ile Arg Ala Trp Val
 115 120 125

Ala Trp Arg Asn Arg Cys Leu Ser Phe Phe Ser Ser Phe Cys Leu Ser
 130 135 140

His Ile Lys Gly Val Gly Ile Lys
 145 150

<210> 220

<211> 178

<212> PRT

<213> Homo sapien

<400> 220

Ser Glu Gly Gly Ala Trp Thr Pro Gly Ser Glu Pro Thr Gly Ala Gln
 1 5 10 15

Ala Cys Glu Phe Glu Ala Pro Ser His His Pro Pro Pro Gln Val Val
 20 25 30

Tyr Ile Ala Cys Ser Phe Thr Thr Val Trp Leu Ile Tyr Ser Lys Phe
 35 40 45

Lys Ala Thr Tyr Asp Gly Asn His Asp Thr Phe Arg Val Glu Phe Leu
 50 55 60

Val Val Pro Thr Ala Ile Leu Ala Phe Leu Val Asn His Asp Phe Thr
 65 70 75 80

Pro Leu Glu Ile Leu Trp Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala
 85 90 95

Ile Leu Pro Gln Leu Phe Met Val Ser Lys Thr Gly Glu Ala Glu Thr
 100 105 110

Ile Thr Ser His Tyr Leu Phe Ala Leu Gly Val Tyr Arg Thr Leu Tyr
 115 120 125

Leu Phe Asn Trp Ile Trp Arg Tyr His Phe Glu Gly Phe Phe Asp Leu
 130 135 140

Ile Ala Ile Val Ala Gly Leu Val Gln Thr Val Leu Tyr Cys Asp Phe
 145 150 155 160

Phe Tyr Leu Tyr Ile Thr Lys Val Leu Lys Gly Lys Lys Leu Ser Leu
 165 170 175

Pro Ala

<210> 221
 <211> 183
 <212> PRT
 <213> Homo sapien

<400> 221

Leu His Pro Ser Gly Asp Pro Leu Asp Leu Leu His Leu Pro Gly Val
 1 5 10 15

Ser Gly His Leu Ala Ala Ala Val His Gly Glu Gln Asp Arg Arg Gly
 20 25 30

Gly Asp His His Gln Pro Leu Leu Val Cys Ala Arg Arg Leu Pro His
 35 40 45

Ala Leu Ser Leu Gln Leu Asp Leu Ala Leu Pro Phe Arg Gly Leu Leu
 50 55 60

Arg Pro His Arg His Cys Gly Arg Pro Gly Pro Asp Ser Pro Leu Leu

Glu Val Gln Gly Pro Pro Ala Lys Lys Ala Ala Val Pro Ala Lys Arg
 100 105 110

Val Gly Leu Pro Pro Gly Lys Ala Ala Ala Lys Ala Ser Glu Ser Ser
 115 120 125

Ser Ser Glu Glu Ser Ser Asp Asp Asp Asp Glu Glu Asp Gln Lys Lys
 130 135 140

Gln Pro Val Gln Lys Gly Val Lys Pro Gln Ala Lys Ala Ala Lys Ala
 145 150 155 160

Pro Pro Lys Lys Ala Lys Ser Ser Asp Ser Asp Ser Asp Ser Ser Ser
 165 170 175

Glu Asp Glu Pro Pro Lys Asn Gln Lys Pro Lys Ile Thr Pro Val Thr
 180 185 190

Val Lys Ala Gln Thr Lys Ala Pro Pro Lys Pro Ala Arg Ala Ala Pro
 195 200 205

Lys Ile Ala Asn Gly Lys Ala Ala Ser Ser Ser Ser Ser Ser Ser Ser
 210 215 220

Ser Ser Ser Ser Asp Asp Ser Glu Glu Glu Lys Ala Ala Ala Thr Pro
 225 230 235 240

Lys Lys Val Trp Thr Ile Thr Ser Val Arg Ala Glu Val Thr Arg Ala
 245 250 255

Val Met Cys Val Cys Leu Pro Ser Leu Ala Gly Leu Val Gly Ser Ala
 260 265 270

Phe Ser Cys Gly Glu Ser Ile Phe Phe Leu Met Gln Thr Val Pro Lys
 275 280 285

Lys Gln Val Val Ala Lys Ala Pro Val Lys Ala Ala Thr Thr Pro Thr
 290 295 300

Arg Lys Ser Ser Ser Ser Glu Asp Ser Ser Ser Asp Glu Glu Glu Glu
 305 310 315 320

Gln Lys Lys Pro Met Lys Asn Lys Pro Gly Pro Tyr Ser Ser Val Pro
 325 330 335

Pro Pro Ser Ala Pro Pro Pro Lys Lys Ser Leu Gly Thr Gln Pro Pro
 340 345 350

Lys Lys Ala Val Glu Lys Gln Gln Pro Val Glu Ser Ser Glu Asp Ser
 355 360 365

Ser Asp Glu Ser Asp Ser Ser Ser Glu Glu Glu Lys Lys Pro Pro Thr
 370 375 380

Lys Ala Val Val Ser Lys Ala Thr Thr Lys Pro Pro Pro Ala Lys Lys
 385 390 395 400

Ala Ala Glu Ser Ser Ser Asp Ser Ser Asp Ser Asp Ser Ser Glu Asp
 405 410 415

Asp Glu Ala Pro Ser Lys Pro Ala Gly Thr Thr Lys Asn Ser Ser Asn
 420 425 430

Lys Pro Ala Val Thr Thr Lys Ser Pro Ala Val Lys Pro Ala Ala Ala
 435 440 445

Pro Lys Gln Pro Val Gly Gly Gly Gln Lys Leu Leu Thr Arg Lys Ala
 450 455 460

Asp Ser Ser Ser Ser Glu Glu Glu Ser Ser Ser Ser Glu Glu Glu Lys
 465 470 475 480

Thr Lys Lys Met Val Ala Thr Thr Lys Pro Lys Ala Thr Ala Lys Ala
 485 490 495

Ala Leu Ser Leu Pro Ala Lys Gln Ala Pro Gln Gly Ser Arg Asp Ser
 500 505 510

Ser Ser Asp Ser Asp Ser Ser Ser Glu Glu Glu Glu Glu Lys Thr
 515 520 525

Ser Lys Ser Ala Val Lys Lys Lys Pro Gln Lys Val Ala Gly Gly Ala
 530 535 540

Ala Pro Ser Lys Pro Ala Ser Ala Lys Lys Gly Lys Ala Glu Ser Ser
 545 550 555 560

Asn Ser Ser Ser Ser Asp Asp Ser Ser Glu Glu Glu Glu Glu Lys Leu
 565 570 575

Lys Gly Lys Gly Ser Pro Arg Pro Gln Ala Pro Lys Ala Asn Gly Thr

580 585 590
 Ser Ala Leu Thr Ala Gln Asn Gly Lys Ala Ala Lys Asn Ser Glu Glu
 595 600 605
 Glu Glu Glu Glu Lys Lys Lys Ala Ala Val Val Val Ser Lys Ser Gly
 610 615 620
 Ser Leu Lys Lys Arg Lys Gln Asn Glu Ala Ala Lys Glu Ala Glu Thr
 625 630 635 640
 Pro Gln Ala Lys Lys Ile Lys Leu Gln Thr Pro Asn Thr Phe Pro Lys
 645 650 655
 Arg Lys Lys Gly Glu Lys Arg Ala Ser Ser Pro Phe Arg Arg Val Arg
 660 665 670
 Glu Glu Glu Ile Glu Val Asp Ser Arg Val Ala Asp Asn Ser Phe Asp
 675 680 685
 Ala Lys Arg Gly Ala Ala Gly Asp Trp Gly Glu Arg Ala Asn Gln Val
 690 695 700
 Leu Lys Phe Thr Lys Gly Lys Ser Phe Arg His Glu Lys Thr Lys Lys
 705 710 715 720
 Lys Arg Gly Ser Tyr Arg Gly Gly Ser Ile Ser Val Gln Val Asn Ser
 725 730 735
 Ile Lys Phe Asp Ser Glu
 740
 <210> 223
 <211> 288
 <212> PRT
 <213> Homo sapien
 <400> 223
 Leu Ser Gly His Leu Leu Leu Lys Gln Ser Gly Pro Thr Gln Pro Glu
 1 5 10 15
 Arg Thr Ala Phe Leu Ser Asn Pro Gln Pro Leu Ile Phe Ala Asn Leu
 20 25 30
 Lys His Tyr Gln Lys Gln Gln Ser Leu Pro Ser Leu Cys Ser Thr Ser
 35 40 45

Asp Pro Asp Thr Pro Leu Gly Ala Pro Ser Ser Ser Asp Ser Asp Ser
 50 55 60

Ser Ser Ser Glu Glu Glu Glu Lys Thr Ser Lys Ser Ala Val Lys
 65 70 75 80

Lys Lys Pro Gln Lys Val Ala Gly Gly Ala Ala Pro Ser Lys Pro Ala
 85 90 95

Ser Ala Lys Lys Gly Lys Ala Glu Ser Ser Asn Ser Ser Ser Ser Asp
 100 105 110

Asp Ser Ser Glu Glu Glu Glu Lys Leu Lys Gly Lys Gly Ser Pro
 115 120 125

Arg Pro Gln Ala Pro Lys Ala Asn Gly Thr Ser Ala Leu Thr Ala Gln
 130 135 140

Asn Gly Lys Ala Ala Lys Asn Ser Glu Glu Glu Glu Glu Lys Lys
 145 150 155 160

Lys Ala Ala Val Val Val Ser Lys Ser Gly Ser Leu Lys Lys Arg Lys
 165 170 175

Gln Asn Glu Ala Ala Lys Glu Ala Glu Thr Pro Gln Ala Lys Lys Ile
 180 185 190

Lys Leu Gln Thr Pro Asn Thr Phe Pro Lys Arg Lys Lys Gly Glu Lys
 195 200 205

Arg Ala Ser Ser Pro Phe Arg Arg Val Arg Glu Glu Glu Ile Glu Val
 210 215 220

Asp Ser Arg Val Ala Asp Asn Ser Phe Asp Ala Lys Arg Gly Ala Ala
 225 230 235 240

Gly Asp Trp Gly Glu Arg Ala Asn Gln Val Leu Lys Phe Thr Lys Gly
 245 250 255

Lys Ser Phe Arg His Glu Lys Thr Lys Lys Lys Arg Gly Ser Tyr Arg
 260 265 270

Gly Gly Ser Ile Ser Val Gln Val Asn Ser Ile Lys Phe Asp Ser Glu
 275 280 285

<210> 224
 <211> 265
 <212> PRT
 <213> Homo sapien

<400> .224

Ser Ser Ala Pro Asp Phe Ala Asn Leu Lys His Tyr Gln Lys Gln Gln
 1 5 10 15

Ser Leu Pro Ser Leu Cys Ser Thr Ser Asp Pro Asp Thr Pro Leu Gly
 20 25 30

Ala Pro Ser Ser Ser Asp Ser Asp Ser Ser Ser Ser Glu Glu Glu Glu
 35 40 45

Glu Lys Thr Ser Lys Ser Ala Val Lys Lys Lys Pro Gln Lys Val Ala
 50 55 60

Gly Gly Ala Ala Pro Ser Lys Pro Ala Ser Ala Lys Lys Gly Lys Ala
 65 70 75 80

Glu Ser Ser Asn Ser Ser Ser Ser Asp Asp Ser Ser Glu Glu Glu Glu
 85 90 95

Glu Lys Leu Lys Gly Lys Gly Ser Pro Arg Pro Gln Ala Pro Lys Ala
 100 105 110

Asn Gly Thr Ser Ala Leu Thr Ala Gln Asn Gly Lys Ala Ala Lys Asn
 115 120 125

Ser Glu Glu Glu Glu Glu Glu Lys Lys Lys Ala Ala Val Val Val Ser
 130 135 140

Lys Ser Gly Ser Leu Lys Lys Arg Lys Gln Asn Glu Ala Ala Lys Glu
 145 150 155 160

Ala Glu Thr Pro Gln Ala Lys Lys Ile Lys Leu Gln Thr Pro Asn Thr
 165 170 175

Phe Pro Lys Arg Lys Lys Gly Glu Lys Arg Ala Ser Ser Pro Phe Arg
 180 185 190

Arg Val Arg Glu Glu Glu Ile Glu Val Asp Ser Arg Val Ala Asp Asn
 195 200 205

Ser Phe Asp Ala Lys Arg Gly Ala Ala Gly Asp Trp Gly Glu Arg Ala
 210 215 220

Asn Gln Val Leu Lys Phe Thr Lys Gly Lys Ser Phe Arg His Glu Lys
 225 230 235 240

Thr Lys Lys Lys Arg Gly Ser Tyr Arg Gly Gly Ser Ile Ser Val Gln
 245 250 255

Val Asn Ser Ile Lys Phe Asp Ser Glu
 260 265

<210> 225
 <211> 1276
 <212> PRT
 <213> Homo sapien

<400> 225

Met Ile Leu Val Gln Ile Leu Lys Gln Glu Trp Pro Lys His Trp Pro
 1 5 10 15

Thr Phe Ile Ser Asp Ile Val Gly Ala Ser Arg Thr Ser Glu Ser Leu
 20 25 30

Cys Gln Asn Asn Met Val Ile Leu Lys Leu Leu Ser Glu Glu Val Phe
 35 40 45

Asp Phe Ser Ser Gly Gln Ile Thr Gln Val Lys Ser Lys His Leu Lys
 50 55 60

Asp Ser Met Cys Asn Glu Phe Ser Gln Ile Phe Gln Leu Cys Gln Phe
 65 70 75 80

Val Met Glu Asn Ser Gln Asn Ala Pro Leu Val His Ala Thr Leu Glu
 85 90 95

Thr Leu Leu Arg Phe Leu Asn Trp Ile Pro Leu Gly Tyr Ile Phe Glu
 100 105 110

Thr Lys Leu Ile Ser Thr Leu Ile Tyr Lys Phe Leu Asn Val Pro Met
 115 120 125

Phe Arg Asn Val Ser Leu Lys Cys Leu Thr Glu Ile Ala Gly Val Ser
 130 135 140

Val Ser Gln Tyr Glu Glu Gln Phe Val Thr Leu Phe Thr Leu Thr Met
 145 150 155 160

348/383

Met Gln Leu Lys Gln Met Leu Pro Leu Asn Thr Asn Ile Arg Leu Ala
 165 170 175

Tyr Ser Asn Gly Lys Asp Asp Glu Gln Asn Phe Ile Gln Asn Leu Ser
 180 185 190

Leu Phe Leu Cys Thr Phe Leu Lys Glu His Asp Gln Leu Ile Glu Lys
 195 200 205

Arg Leu Asn Leu Arg Glu Thr Leu Met Glu Ala Leu His Tyr Met Leu
 210 215 220

Leu Val Ser Glu Val Glu Glu Thr Glu Ile Phe Lys Ile Cys Leu Glu
 225 230 235 240

Tyr Trp Asn His Leu Ala Ala Glu Leu Tyr Arg Glu Ser Pro Phe Ser
 245 250 255

Thr Ser Ala Ser Pro Leu Leu Ser Gly Ser Gln His Phe Asp Val Pro
 260 265 270

Pro Arg Arg Gln Leu Tyr Leu Pro Met Leu Phe Lys Val Thr Glu Arg
 275 280 285

Leu Val Glu Cys Ser Ser Cys Cys Ile Leu Trp Phe Leu Arg Ser Glu
 290 295 300

Ser Lys Tyr Phe Tyr Ile Cys Val Asn Lys Leu Ala Ile Lys Arg Glu
 305 310 315 320

Pro Asn Asn Phe Ser Met Ser Val Glu Asn Gln Asn Met Lys Gly Val
 325 330 335

Glu Ser Arg Thr Leu Ile Leu Lys Ser Val Val Leu Leu Ser Val Ser
 340 345 350

Thr Leu Val Val Ile Ser Leu Gly Lys Phe Ile Ala Thr Cys Gln Ser
 355 360 365

Thr Lys Pro Glu Ser Arg Asn Glu Thr Gln Glu Thr Pro Val Thr Glu
 370 375 380

Val Gly Glu Lys Asn His Ile Lys Thr His Leu Asn Asn Tyr Lys Ala
 385 390 395 400

Ile Phe Val Glu Leu Gln Trp Lys Lys Asn Phe Phe Phe Trp Arg Gln

405	410	415
Gly Leu Ala Leu Trp Leu Arg Leu Glu Cys Ser Gly Val Val Ile Ala		
420	425	430
His Tyr Asn Leu Glu Leu Leu Asp Tyr Lys Gln Phe Ser Cys Val Ser		
435	440	445
Leu Pro Ser Asn Trp Leu Gln Ala His Thr Thr Met Pro Glu Gln Ile		
450	455	460
Leu Asn Phe Leu Val Leu Leu His Leu Tyr Leu His Ser Phe Phe Cys		
465	470	475
480		
Cys Ala Leu Ser Pro Ser Ile Phe Ile Val Leu Glu Ile Gly Cys His		
485	490	495
Phe Val Leu Leu Lys Leu Leu Ser Asn Ser Trp Pro Gln Gln Phe Phe		
500	505	510
Leu Pro Arg Pro Ser Gly Ile Val Gly Ile Ile Gly Met Asn Pro Tyr		
515	520	525
Thr Trp Leu Ala Cys Gly Phe Phe Gly Phe Val Cys Phe Glu Leu Ser		
530	535	540
Phe Tyr Thr Asn Asp Phe Ser Asp Leu Thr Ile Phe Phe Leu Ile Asp		
545	550	555
560		
Ile Leu Leu Ser Met Val Arg Leu Leu Met Val Ser Arg Met Ala Lys		
565	570	575
Pro Glu Glu Val Leu Val Val Glu Asn Asp Gln Gly Glu Val Val Arg		
580	585	590
Glu Phe Met Lys Asp Thr Asp Ser Ile Asn Leu Tyr Lys Asn Met Arg		
595	600	605
Glu Thr Leu Gly Lys Leu Ile Asn Thr Val Asn Leu Tyr Leu Tyr Lys		
610	615	620
Ser Ile Leu Gly Trp Lys Tyr Ile Leu Gly Asn Val Leu Val Val Ser		
625	630	635
640		
Lys Tyr Phe Leu Asn Val Leu Leu Leu Ile Asn Lys Ile Leu Leu Ile		
645	650	655

Ile Ala Phe Glu Thr Met Phe Phe Phe Val Val Tyr Leu Thr His Leu
 660 665 670

Asp Tyr Val Asp Thr Glu Arg Ile Met Thr Glu Lys Leu His Asn Gln
 675 680 685

Val Asn Gly Thr Glu Trp Ser Trp Lys Asn Leu Asn Thr Leu Cys Trp
 690 695 700

Ala Ile Gly Ser Ile Ser Gly Ala Met His Glu Glu Asp Glu Lys Arg
 705 710 715 720

Phe Leu Val Thr Val Ile Lys Asp Leu Leu Gly Leu Cys Glu Gln Lys
 725 730 735

Arg Gly Lys Asp Asn Lys Ala Ile Ile Ala Ser Asn Ile Met Tyr Ile
 740 745 750

Val Gly Gln Tyr Pro Arg Phe Leu Arg Ala His Trp Lys Phe Leu Lys
 755 760 765

Thr Val Val Asn Lys Leu Phe Glu Phe Met His Glu Thr His Asp Gly
 770 775 780

Val Gln Asp Met Ala Cys Asp Thr Phe Ile Lys Ile Ala Gln Lys Cys
 785 790 795 800

Arg Arg His Phe Val Gln Val Gln Val Gly Glu Val Met Pro Phe Ile
 805 810 815

Asp Glu Ile Leu Asn Asn Ile Asn Thr Ile Ile Cys Asp Leu Gln Pro
 820 825 830

Gln Gln Val His Thr Phe Tyr Glu Ala Val Gly Tyr Met Ile Gly Ala
 835 840 845

Gln Thr Asp Gln Thr Val Gln Glu His Leu Ile Glu Lys Tyr Met Leu
 850 855 860

Leu Pro Asn Gln Val Trp Asp Ser Ile Ile Gln Gln Ala Thr Lys Asn
 865 870 875 880

Val Asp Ile Leu Lys Asp Pro Glu Thr Val Lys Gln Leu Gly Ser Ile
 885 890 895

Leu Lys Thr Asn Val Arg Ala Cys Lys Ala Val Gly His Pro Phe Val
 900 905 910

Ile Gln Leu Gly Arg Ile Tyr Leu Asp Met Leu Asn Val Tyr Lys Cys
 915 920 925

Leu Ser Glu Asn Ile Ser Ala Ala Ile Gln Ala Asn Gly Glu Met Val
 930 935 940

Thr Lys Gln Pro Leu Ile Arg Ser Met Arg Thr Val Lys Arg Glu Thr
 945 950 955 960

Leu Lys Leu Ile Ser Gly Trp Val Ser Arg Ser Asn Asp Pro Gln Met
 965 970 975

Val Ala Glu Asn Phe Val Pro Pro Leu Leu Asp Ala Val Leu Ile Asp
 980 985 990

Tyr Gln Arg Asn Val Pro Ala Ala Arg Glu Pro Glu Val Leu Ser Thr
 995 1000 1005

Met Ala Ile Ile Val Asn Lys Leu Gly Gly His Ile Thr Ala Glu
 1010 1015 1020

Ile Pro Gln Ile Phe Asp Ala Val Phe Glu Cys Thr Leu Asn Met
 1025 1030 1035

Ile Asn Lys Asp Phe Glu Glu Tyr Pro Glu His Arg Thr Asn Phe
 1040 1045 1050

Phe Leu Leu Leu Gln Ala Val Asn Ser His Cys Phe Pro Ala Phe
 1055 1060 1065

Leu Ala Ile Pro Pro Thr Gln Phe Lys Leu Val Leu Asp Ser Ile
 1070 1075 1080

Ile Trp Ala Phe Lys His Thr Met Arg Asn Val Ala Asp Thr Gly
 1085 1090 1095

Leu Gln Ile Leu Phe Thr Leu Leu Gln Asn Val Ala Gln Glu Glu
 1100 1105 1110

Ala Ala Ala Gln Ser Phe Tyr Gln Thr Tyr Phe Cys Asp Ile Leu
 1115 1120 1125

Gln His Ile Phe Ser Val Val Thr Asp Thr Ser His Thr Ala Gly
 1130 1135 1140

Leu Thr Met His Ala Ser Ile Leu Ala Tyr Met Phe Asn Leu Val
 1145 1150 1155

Glu Glu Gly Lys Ile Ser Thr Ser Leu Asn Pro Gly Asn Pro Val
 1160 1165 1170

Asn Asn Gln Ile Phe Leu Gln Glu Tyr Val Ala Asn Leu Leu Lys
 1175 1180 1185

Ser Ala Phe Pro His Leu Gln Asp Ala Gln Val Lys Leu Phe Val
 1190 1195 1200

Thr Gly Leu Phe Ser Leu Asn Gln Asp Ile Pro Ala Phe Lys Glu
 1205 1210 1215

His Leu Arg Asp Phe Leu Val Gln Ile Lys Glu Phe Ala Gly Glu
 1220 1225 1230

Asp Thr Ser Asp Leu Phe Leu Glu Glu Arg Glu Ile Ala Leu Arg
 1235 1240 1245

Gln Ala Asp Glu Glu Lys His Lys Arg Gln Met Ser Val Pro Gly
 1250 1255 1260

Ile Phe Asn Pro His Glu Ile Pro Glu Glu Met Cys Asp
 1265 1270 1275

<210> 226
 <211> 632
 <212> PRT
 <213> Homo sapien

<400> 226

Met Tyr Cys Tyr Ser Ser Ile Lys Phe Cys Ser Leu Phe Ala Phe Glu
 1 5 10 15

Thr Met Phe Phe Phe Val Val Tyr Leu Thr His Leu Asp Tyr Val Asp
 20 25 30

Thr Glu Arg Ile Met Thr Glu Lys Leu His Asn Gln Val Asn Gly Thr
 35 40 45

Glu Trp Ser Trp Lys Asn Leu Asn Thr Leu Cys Trp Ala Ile Gly Ser
 50 55 60

Ile Ser Gly Ala Met His Glu Glu Asp Glu Lys Arg Phe Leu Val Thr
 65 70 75 80
 Val Ile Lys Asp Leu Leu Gly Leu Cys Glu Gln Lys Arg Gly Lys Asp
 85 90 95
 Asn Lys Ala Ile Ile Ala Ser Asn Ile Met Tyr Ile Val Gly Gln Tyr
 100 105 110
 Pro Arg Phe Leu Arg Ala His Trp Lys Phe Leu Lys Thr Val Val Asn
 115 120 125
 Lys Leu Phe Glu Phe Met His Glu Thr His Asp Gly Val Gln Asp Met
 130 135 140
 Ala Cys Asp Thr Phe Ile Lys Ile Ala Gln Lys Cys Arg Arg His Phe
 145 150 155 160
 Val Gln Val Gln Val Gly Glu Val Met Pro Phe Ile Asp Glu Ile Leu
 165 170 175
 Asn Asn Ile Asn Thr Ile Ile Cys Asp Leu Gln Pro Gln Gln Val His
 180 185 190
 Thr Phe Tyr Glu Ala Val Gly Tyr Met Ile Gly Ala Gln Thr Asp Gln
 195 200 205
 Thr Val Gln Glu His Leu Ile Glu Lys Tyr Met Leu Leu Pro Asn Gln
 210 215 220
 Val Trp Asp Ser Ile Ile Gln Gln Ala Thr Lys Asn Val Asp Ile Leu
 225 230 235 240
 Lys Asp Pro Glu Thr Val Lys Gln Leu Gly Ser Ile Leu Lys Thr Asn
 245 250 255
 Val Arg Ala Cys Lys Ala Val Gly His Pro Phe Val Ile Gln Leu Gly
 260 265 270
 Arg Ile Tyr Leu Asp Met Leu Asn Val Tyr Lys Cys Leu Ser Glu Asn
 275 280 285
 Ile Ser Ala Ala Ile Gln Ala Asn Gly Glu Met Val Thr Lys Gln Pro
 290 295 300

Leu Ile Arg Ser Met Arg Thr Val Lys Arg Glu Thr Leu Lys Leu Ile
 305 310 315 320

Ser Gly Trp Val Ser Arg Ser Asn Asp Pro Gln Met Val Ala Glu Asn
 325 330 335

Phe Val Pro Pro Leu Leu Asp Ala Val Leu Ile Asp Tyr Gln Arg Asn
 340 345 350

Val Pro Ala Ala Arg Glu Pro Glu Val Leu Ser Thr Met Ala Ile Ile
 355 360 365

Val Asn Lys Leu Gly Gly His Ile Thr Ala Glu Ile Pro Gln Ile Phe
 370 375 380

Asp Ala Val Phe Glu Cys Thr Leu Asn Met Ile Asn Lys Asp Phe Glu
 385 390 395 400

Glu Tyr Pro Glu His Arg Thr Asn Phe Phe Leu Leu Leu Gln Ala Val
 405 410 415

Asn Ser His Cys Phe Pro Ala Phe Leu Ala Ile Pro Pro Thr Gln Phe
 420 425 430

Lys Leu Val Leu Asp Ser Ile Ile Trp Ala Phe Lys His Thr Met Arg
 435 440 445

Asn Val Ala Asp Thr Gly Leu Gln Ile Leu Phe Thr Leu Leu Gln Asn
 450 455 460

Val Ala Gln Glu Glu Ala Ala Ala Gln Ser Phe Tyr Gln Thr Tyr Phe
 465 470 475 480

Cys Asp Ile Leu Gln His Ile Phe Ser Val Val Thr Asp Thr Ser His
 485 490 495

Thr Ala Gly Leu Thr Met His Ala Ser Ile Leu Ala Tyr Met Phe Asn
 500 505 510

Leu Val Glu Glu Gly Lys Ile Ser Thr Ser Leu Asn Pro Gly Asn Pro
 515 520 525

Val Asn Asn Gln Ile Phe Leu Gln Glu Tyr Val Ala Asn Leu Leu Lys
 530 535 540

Ser Ala Phe Pro His Leu Gln Asp Ala Gln Val Lys Leu Phe Val Thr
 545 550 555 560

Gly Leu Phe Ser Leu Asn Gln Asp Ile Pro Ala Phe Lys Glu His Leu
 565 570 575

Arg Asp Phe Leu Val Gln Ile Lys Glu Phe Ala Gly Glu Asp Thr Ser
 580 585 590

Asp Leu Phe Leu Glu Glu Arg Glu Ile Ala Leu Arg Gln Ala Asp Glu
 595 600 605

Glu Lys His Lys Arg Gln Met Ser Val Pro Gly Ile Phe Asn Pro His
 610 615 620

Glu Ile Pro Glu Glu Met Cys Asp
 625 630

<210> 227
 <211> 159
 <212> PRT
 <213> Homo sapien

<400> 227

Met Glu Leu His Tyr Leu Thr His Phe Gln Ile Pro Asp Arg Ile Ser
 1 5 10 15

Thr Val Arg Arg Phe Thr Leu Leu Leu Ser Phe Leu Leu Arg Arg Leu
 20 25 30

Val Thr Leu Ile Ser Gln Gln Ala Thr Leu Leu Ala Ser Asn Glu Ala
 35 40 45

Phe Lys Lys Gln Ala Glu Ser Ala Ser Glu Ala Ala Lys Lys Tyr Met
 50 55 60

Glu Glu Asn Asp Gln Leu Lys Lys Gly Ala Ala Val Asp Gly Gly Lys
 65 70 75 80

Leu Asp Val Gly Asn Ala Glu Val Lys Leu Glu Glu Glu Asn Arg Ser
 85 90 95

Leu Lys Ala Asp Leu Gln Lys Leu Lys Asp Glu Leu Ala Ser Thr Lys
 100 105 110

Gln Lys Leu Glu Lys Ala Glu Asn Gln Val Leu Ala Met Arg Lys Gln
 115 120 125

Ser Glu Gly Leu Thr Lys Glu Tyr Asp Arg Leu Leu Glu Glu His Ala
 130 135 140

Lys Leu Gln Ala Ala Val Asp Gly Pro Met Asp Lys Lys Glu Glu
 145 150 155

<210> 228
 <211> 313
 <212> PRT
 <213> Homo sapien

<400> 228

Met Gly Ala Glu Ala Ser Ser Ser Trp Cys Pro Gly Thr Ala Leu Pro
 1 5 10 15

Glu Glu Arg Leu Ser Val Lys Arg Ala Ser Glu Ile Ser Gly Phe Leu
 20 25 30

Gly Gln Gly Ser Ser Gly Glu Ala Ala Leu Asp Val Leu Thr His Val
 35 40 45

Leu Glu Gly Ala Gly Asn Lys Leu Thr Ser Ser Cys Gly Lys Pro Ser
 50 55 60

Ser Asn Arg Met Ser Leu Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr
 65 70 75 80

Ala Glu Val Phe Val Val Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro
 85 90 95

Lys Arg Trp Gln Lys Ile Phe Lys Ser Arg Leu Val Glu Leu Leu Val
 100 105 110

Ser Tyr Gly Asn Thr Phe Phe Val Val Leu Ile Val Ile Leu Val Leu
 115 120 125

Leu Val Ile Asp Ala Val Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr
 130 135 140

Glu Lys Val Asn Leu Gln Asn Asn Pro Gly Ala Met Glu His Phe His
 145 150 155 160

Met Lys Leu Phe Arg Ala Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser
 165 170 175

Leu Leu Leu Ser Phe Leu Leu Arg Arg Leu Val Thr Leu Ile Ser Gln
 180 185 190

Gln Ala Thr Leu Leu Ala Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu
 195 200 205

Ser Ala Ser Glu Ala Ala Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu
 210 215 220

Lys Lys Gly Ala Ala Val Asp Gly Gly Lys Leu Asp Val Gly Asn Ala
 225 230 235 240

Glu Val Lys Leu Glu Glu Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln
 245 250 255

Lys Leu Lys Asp Glu Leu Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala
 260 265 270

Glu Asn Gln Val Leu Ala Met Arg Lys Gln Ser Glu Gly Leu Thr Lys
 275 280 285

Glu Tyr Asp Arg Leu Leu Glu Glu His Ala Lys Leu Gln Ala Ala Val
 290 295 300

Asp Gly Pro Met Asp Lys Lys Glu Glu
 305 310

<210> 229
 <211> 301
 <212> PRT
 <213> Homo sapien

<400> 229

Met Ser Leu Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr Ala Glu Val
 1 5 10 15

Phe Val Val Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro Lys Arg Trp
 20 25 30

Gln Lys Ile Phe Lys Ser Arg Leu Val Glu Leu Leu Val Ser Tyr Gly
 35 40 45

Asn Thr Phe Phe Val Val Leu Ile Val Ile Leu Val Leu Leu Val Ile
 50 55 60

Asp Ala Val Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr Glu Lys Val
 65 70 75 80

Asn Leu Gln Asn Asn Pro Gly Ala Met Glu His Phe His Met Lys Leu
 85 90 95
 Phe Arg Ala Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser Leu Leu Leu
 100 105 110
 Ser Phe Leu Leu Arg Arg Leu Val Thr Leu Ile Ser Gln Gln Ala Thr
 115 120 125
 Leu Leu Ala Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu Ser Ala Ser
 130 135 140
 Glu Ala Ala Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu Lys Lys Gly
 145 150 155 160
 Ala Ala Val Asp Gly Gly Lys Leu Asp Val Gly Asn Ala Glu Val Lys
 165 170 175
 Leu Glu Glu Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln Lys Leu Lys
 180 185 190
 Asp Glu Leu Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala Glu Asn Gln
 195 200 205
 Val Leu Ala Met Arg Lys Gln Ser Glu Gly Leu Thr Lys Glu Tyr Asp
 210 215 220
 Arg Leu Leu Glu Glu His Ala Lys Leu Gln Ser Pro Ala Ser Pro Ser
 225 230 235 240
 Ser Thr Ser Val Cys Ala Leu Leu Leu Pro Pro Phe Pro Ser Thr Ala
 245 250 255
 His Ser Ser Ser Ser Arg Pro Leu Ser Thr Leu Ser Lys His Ile Thr
 260 265 270
 Gly Asp Leu Ile Ala Thr Arg Ser Glu Cys Val Cys Cys His Pro Ala
 275 280 285
 Trp Pro Gly Gln Ala Trp His Ser Leu Gly Phe His Ala
 290 295 300

<210> 230

<211> 98

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X=any amino acid

<220>

<221> MISC_FEATURE

<222> (25)..(25)

<223> X=any amino acid

<220>

<221> MISC_FEATURE

<222> (29)..(29)

<223> X=any amino acid

<220>

<221> MISC_FEATURE

<222> (68)..(68)

<223> X=any amino acid

<220>

<221> MISC_FEATURE

<222> (73)..(73)

<223> X=any amino acid

<400> 230

Ile	Xaa	Ser	Pro	Phe	Ser	Tyr	Thr	Pro	Pro	Phe	Pro	Pro	Thr	Gly	Gly
1				5					10					15	

Ala	Ala	Leu	Ser	Ala	Arg	Gly	Ile	Xaa	Gly	Pro	Glu	Xaa	Glu	Pro	Ala
		20						25					30		

Ala	Ala	Ala	Val	Ala	Arg	Gly	Lys	Arg	Glu	Glu	Ala	Ala	Thr	Gly	Glu
		35					40					45			

Lys	Lys	Arg	Ser	Arg	His	Arg	Arg	Glu	Val	Asp	Thr	Gln	Ala	Ala	Ala
	50					55					60				

Ala	Ala	Arg	Xaa	Ala	Arg	Pro	Pro	Xaa	Arg	Pro	Ser	Pro	Arg	Pro	Val
65					70					75					80

His	Lys	Ala	Ala	Arg	Leu	Arg	Lys	Gly	Val	Arg	Thr	Lys	Gly	Gln	Ser
					85				90					95	

Leu Gln

<210> 231
 <211> 130
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (25)..(25)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (29)..(29)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (67)..(67)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (73)..(73)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (128)..(128)
 <223> X=any amino acid

<400> 231

Phe	Xaa	Pro	Xaa	Phe	Pro	Thr	Pro	Pro	Pro	Ser	Pro	Arg	Pro	Glu	Glu
1				5					10					15	

Pro	Leu	Phe	Pro	Arg	Gly	Ala	Phe	Xaa	Gly	Pro	Arg	Xaa	Ser	Pro	Pro
			20					25					30		

Pro	Pro	Pro	Ser	Pro	Glu	Gly	Ser	Glu	Lys	Arg	Pro	Arg	Pro	Glu	Arg
			35					40				45			

Lys Ser Gly Val Ala Thr Gly Glu Lys Ser Thr Pro Lys Gln Gln Pro
50 55 60

Pro Pro Xaa Arg Pro Ala His Gln Xaa Ala Arg Pro Pro Ala Pro Ser
65 70 75 80

Thr Lys Gln Pro Ala Ser Ala Lys Gly Tyr Glu Arg Arg Asp Lys Val
85 90 95

Ser Asn Glu Lys Ser Val Glu Asp Arg Lys Glu Val Lys Glu Lys Lys
100 105 110

Glu Lys Thr Lys Gln Thr Ile Ser Cys Pro Gly Gly Ser Glu Lys Xaa
115 120 125

Lys His
130

<210> 232
<211> 260
<212> PRT
<213> Homo sapien

<400> 232

Met Asp Met Ser Leu Glu Leu Asp Ile Ile Lys Leu Asn Arg Ser Gln
1 5 10 15

Arg Gly Gly Trp Gly Gly Cys Arg Gly Leu Arg Ala Val Cys Arg Leu
20 25 30

Pro Val Ala Gly Arg Val Trp Trp Val Leu Gln Ala Ala Ala Gln Val
35 40 45

Asn Arg Gly Gly Gly Pro Ile Arg Asn Arg Pro Gly Ile Ala Leu Arg
50 55 60

Ala Ala Val Glu Gly Gly Arg Asn Arg Pro Ala Pro Tyr Ser Arg Pro
65 70 75 80

Lys Gln Leu Pro Asp Lys Trp Gln His Asp Leu Phe Asp Ser Gly Phe
85 90 95

Gly Gly Gly Ala Gly Val Glu Thr Gly Gly Lys Leu Cys Val Val Ser
100 105 110

Asn Leu Asp Ile Gly Val Ser Asp Ala Asp Ile Gln Glu Leu Phe Ala

115 120 125

Glu Phe Gly Thr Leu Lys Lys Ala Ala Val His Tyr Asp Arg Ser Gly
130 135 140

Arg Ser Leu Gly Thr Ala Asp Val His Phe Glu Arg Lys Ala Asp Ala
145 150 155 160

Leu Lys Ala Met Lys Gln Tyr Asn Gly Val Pro Leu Asp Gly Arg Pro
165 170 175

Met Asn Ile Gln Leu Val Thr Ser Gln Ile Asp Ala Gln Arg Arg Pro
180 185 190

Ala Gln Ser Val Asn Arg Gly Gly Met Thr Arg Asn Arg Gly Ala Gly
195 200 205

Gly Met Gly Glu Leu Val Glu Ala Pro Arg Arg Arg His Cys Ser Asp
210 215 220

Gly Phe Cys Gly Arg Gly Arg Gly Ala Gly Arg Asn Ser Lys Gln Gln
225 230 235 240

Leu Ser Ala Glu Glu Leu Asp Ala Gln Leu Asp Ala Tyr Asn Ala Arg
245 250 255

Met Asp Thr Ser
260

<210> 233
<211> 243
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (28)..(28)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (34)..(34)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (47)..(47)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (54)..(54)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (101)..(101)
<223> X=any amino acid

<400> 233

Thr Glu Pro Glu Pro Ala Arg Arg Leu Gly Arg Val Pro Gly Pro Ala
1 5 10 15

Cys Arg Val Pro Ala Pro Ser Cys Gly Pro Arg Xaa Trp Gly Ala Ala
20 25 30

Ala Xaa Val Asn Arg Gly Gly Gly Pro Ser Gly Thr Gly Arg Xaa Ser
35 40 45

Pro Ala Ala Pro Gly Xaa Arg Gln Glu Pro Thr Gly Ala Leu Gln Gln
50 55 60

Ala Lys Thr Thr Ser Arg Gln Val Ala Ala Arg Ser Phe Arg Gln Trp
65 70 75 80

Leu Arg Arg Trp Cys Arg Arg Gly Asp Arg Trp Glu Thr Val Arg Gly
85 90 95

Val His Leu Asp Xaa Gly Val Ser Asp Ala Asp Ile Gln Glu Leu Phe
100 105 110

Ala Glu Phe Gly Thr Leu Lys Lys Ala Ala Val His Tyr Asp Arg Ser
115 120 125

Gly Arg Ser Leu Gly Thr Ala Asp Val His Phe Glu Arg Lys Ala Asp
130 135 140

Ala Leu Lys Ala Met Lys Gln Tyr Asn Gly Val Pro Leu Asp Gly Arg
145 150 155 160

Pro Met Asn Ile Gln Leu Val Thr Ser Gln Ile Asp Ala Gln Arg Arg
165 170 175

Pro Ala Gln Ser Val Asn Arg Gly Gly Met Thr Arg Asn Arg Gly Ala
180 185 190

Gly Gly Ile Gly Gly Asp Gly Gly Thr Arg Arg Gly Asn Ala Arg Ile
 195 200 205

Leu Cys Gly Arg Gly Arg Gly Ala Gly Arg Asn Ser Lys Gln Gln Leu
 210 215 220

Ser Ala Glu Glu Leu Asp Ala Gln Leu Asp Ala Tyr Asn Ala Arg Met
 225 230 235 240

Asp Thr Ser

<210> 234
 <211> 428
 <212> PRT
 <213> Homo sapien

<400> 234

Met Thr Val Ala Glu Ile Lys Gly Thr Thr Gly Arg Thr Tyr Val Gly
 1 5 10 15

Ser His Ala Gln Gly Arg Ser Ser Lys Cys Leu Lys Lys Thr Lys Thr
 20 25 30

Glu Asn Pro Thr Asp Pro His Gln Thr Arg Trp Thr Arg Ser Gly Gln
 35 40 45

Arg Leu His Arg Gly Thr Gln Ser Val Arg Gln His Ala Trp Ser Met
 50 55 60

His Gly Pro Lys Ser Lys Asn Ala Lys His Ser Met Asp Gln His Thr
 65 70 75 80

His Gly Gln Cys His Val Asp Ile Val Thr Arg Cys Met Phe Ile Cys
 85 90 95

Thr Gly Gln Thr Val Thr Gly His His Pro Thr Ser Thr Ala Ala Glu
 100 105 110

Thr Ser Met Glu Met Ile Asn Ser Val Arg Ala Thr Val Ala Gln Arg
 115 120 125

Glu Ser Met Cys His Leu Arg Glu Ala Ala Tyr Thr Val Val Pro Thr
 130 135 140

Gly Ile Ala His His Val Leu Ala Leu Asp Glu Ser Lys Ala Lys Leu
 145 150 155 160

Ser Ser Asp Val Leu Thr Leu Leu Ile Lys Gln Tyr Cys Arg Glu Ser
 165 170 175

Gly Val Arg Asn Leu Gln Lys Gln Val Glu Lys Val Leu Arg Lys Ser
 180 185 190

Ala Tyr Lys Ile Val Ser Gly Glu Ala Glu Ser Val Glu Val Thr Pro
 195 200 205

Glu Asn Leu Gln Asp Phe Val Gly Lys Pro Val Phe Thr Val Glu Arg
 210 215 220

Met Tyr Asp Val Thr Pro Pro Gly Val Val Met Gly Leu Ala Trp Thr
 225 230 235 240

Ala Met Gly Gly Ser Thr Leu Phe Val Glu Thr Ser Leu Arg Arg Pro
 245 250 255

Gln Asp Lys Asp Ala Lys Gly Asp Lys Asp Gly Ser Leu Glu Val Thr
 260 265 270

Gly Gln Leu Gly Glu Val Met Lys Glu Ser Ala Arg Ile Ala Tyr Thr
 275 280 285

Phe Ala Arg Ala Phe Leu Met Gln His Ala Pro Ala Asn Asp Tyr Leu
 290 295 300

Val Thr Ser His Ile His Leu His Val Pro Glu Gly Ala Thr Pro Lys
 305 310 315 320

Asp Gly Pro Ser Ala Gly Cys Thr Ile Val Thr Ala Leu Leu Ser Leu
 325 330 335

Ala Met Gly Arg Pro Val Arg Gln Asn Leu Ala Met Thr Gly Glu Val
 340 345 350

Ser Leu Thr Gly Lys Ile Leu Pro Val Gly Gly Ile Lys Glu Lys Thr
 355 360 365

Ile Ala Ala Lys Arg Ala Gly Val Thr Cys Ile Val Leu Pro Ala Glu
 370 375 380

Asn Lys Lys Asp Phe Tyr Asp Leu Ala Ala Phe Ile Thr Glu Gly Leu

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385              390              395              400

Glu Val His Phe Val Glu His Tyr Arg Glu Ile Phe Asp Ile Ala Phe
              405              410              415

Pro Asp Glu Gln Ala Glu Ala Leu Ala Val Glu Arg
              420              425

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<211> 287
<212> PRT
<213> Homo sapien

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<223> X=any amino acid

<400> 235

Leu Val Pro Xaa Xaa Ser Arg Pro Cys Val Ala Leu Asp Glu Ser Lys
1              5              10              15

Ala Lys Leu Ser Ser Asp Val Leu Thr Leu Leu Ile Lys Gln Tyr Cys
              20              25              30

Arg Glu Ser Gly Val Arg Asn Leu Gln Lys Gln Val Glu Lys Val Leu
              35              40              45

Arg Lys Ser Ala Tyr Lys Ile Val Ser Gly Glu Ala Glu Ser Val Glu
              50              55              60

Val Thr Pro Glu Asn Leu Gln Asp Phe Val Gly Lys Pro Val Phe Thr
65              70              75              80

Val Glu Arg Met Tyr Asp Val Thr Pro Pro Gly Val Val Met Gly Leu
              85              90              95

Ala Trp Thr Ala Met Gly Gly Ser Thr Leu Phe Val Glu Thr Ser Leu
              100              105              110

Arg Arg Pro Gln Asp Lys Asp Ala Lys Gly Asp Lys Asp Gly Ser Leu
              115              120              125

Glu Val Thr Gly Gln Leu Gly Glu Val Met Lys Glu Ser Ala Arg Ile
              130              135              140

Ala Tyr Thr Phe Ala Arg Ala Phe Leu Met Gln His Ala Pro Ala Asn

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Glu	Thr	Gln	Leu	Gly 85	Gly	Glu	Arg	Tyr	Asn 90	Leu	Phe	Asp	Trp	Leu 95	Pro
Gln	Ala	Lys	Thr 100	Cys	Thr	Phe	Ile	Leu 105	Arg	Gly	Gly	Thr	Glu 110	Gln	Phe
Met	Glu	Glu 115	Thr	Glu	Arg	Ser	Leu 120	His	Asp	Ala	Ile	Met 125	Ile	Val	Met
Arg	Ala 130	Ile	Lys	Asn	Asp	Ser 135	Val	Val	Ala	Gly	Gly 140	Gly	Ala	Ile	Glu
Met 145	Glu	Leu	Ser	Lys	Tyr 150	Leu	Arg	Asp	Tyr	Ser 155	Arg	Thr	Ile	Pro	Gly 160
Lys	Gln	Gln	Leu	Leu 165	Ile	Gly	Ala	Tyr	Ala 170	Lys	Ala	Leu	Glu	Ile 175	Ile
Pro	Arg	Gln	Leu 180	Cys	Asp	Asn	Ala	Gly 185	Phe	Asp	Ala	Thr	Asn 190	Ile	Leu
Asn	Lys	Leu 195	Arg	Ala	Arg	His	Ala 200	Gln	Gly	Gly	Thr	Trp 205	Tyr	Gly	Val
Asp	Ile 210	Asn	Asn	Glu	Asp	Ile	Ala 215	Asp	Asn	Phe	Glu 220	Ala	Phe	Val	Trp
Glu 225	Pro	Ala	Met	Val	Arg	Ile	Asn	Ala	Leu	Thr 235	Ala	Ala	Ser	Glu	Ala 240
Ala	Val	Pro	Asp	Arg 245	Val	Leu									

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1 5 10 15

Glu Gln Phe Met Glu Glu Thr Glu Arg Ser Leu His Asp Ala Ile Met
20 25 30

Ile Val Xaa Arg Ala Ile Lys Asn Asp Ser Val Val Ala Gly Gly Gly
35 40 45

Ala Ile Xaa Met Glu Leu Ser Lys Tyr Leu Arg Asp Tyr Ser Arg Thr
50 55 60

Ile Pro Gly Lys Gln Gln Leu Leu Ile Gly Ala Tyr Ala Lys Ala Leu
65 70 75 80

Glu Ile Ile Pro Arg Gln Leu Cys Asp Asn Ala Gly Phe Asp Ala Thr
85 90 95

Asn Ile Leu Asn Lys Leu Arg Ala Arg His Ala Gln Gly Gly Thr Trp
100 105 110

Tyr Gly Val Asp Ile Asn Asn Glu Asp Ile Ala Asp Asn Phe Glu Ala
115 120 125

Phe Val Trp Glu Pro Ala Met Val Arg Ile Asn Ala Leu Thr Ala Ala
130 135 140

Ser Glu Ala Ala Val Pro Asp Arg Val Leu
145 150

<210> 238

<211> 269

<212> PRT

<213> Homo sapien

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<223> X=any amino acid

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<223> X=any amino acid

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<223> X=any amino acid

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Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu Cys Glu Phe Tyr Phe
1 5 10 15

Ser Xaa Asp Ala Asp Ala Val Leu Thr Asn Xaa Gln Thr Leu Xaa Xaa
20 25 30

Leu Ile Glu Glu Xaa Arg Gly Val Xaa Ala Pro Met Xaa Xaa Xaa Xaa
35 40 45

Gly Lys Xaa Trp Ser Asn Xaa Trp Gly Xaa Leu Ser Xaa Asp Glu Tyr
50 55 60

Tyr Ala Arg Ser Xaa Asp Xaa Val Glu Leu Val Xaa Arg Lys Asp Val
65 70 75 80

Gly Val Trp Asn Val Pro Tyr Ile Xaa Xaa Ala Tyr Val Xaa Gly Gly
85 90 95

Asp Thr Xaa Xaa Met Glu Leu Pro Gln Arg Asp Val Phe Ser Gly Ser
100 105 110

Asp Xaa Asp Xaa Asp Met Ala Phe Cys Glu Xaa Phe Gly Xaa Lys Gly
115 120 125

Ile Phe Xaa His Leu Ser Tyr Gln His Glu Phe Gly Arg Leu Leu Ala
130 135 140

Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro Asp Leu Trp Gln Ile
145 150 155 160

Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr Ile His Glu Asn Tyr
165 170 175

Ser Arg Ala Leu Glu Gly Lys Asp Ile Val Glu Gln Pro Cys Pro Asp
180 185 190

Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys Asp Glu Leu Val
195 200 205

Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly Arg His Glu Asp
210 215 220

Ser Arg Leu Ala Gly Gly Tyr Glu Asn Val Pro Thr Val Asp Xaa Pro
 225 230 235 240

His Glu Ala Gly Gly Val Arg Gly Pro Val Ala Ala Ala Ala Ala Asp
 245 250 255

Val Cys Gly Pro Met Thr Xaa Thr Cys Phe Arg Phe Thr
 260 265

<210> 239
 <211> 138
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 <213> Homo sapien

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<400> 239

Xaa Phe Xaa Xaa Lys Gly Ile Phe Xaa His Leu Ser Tyr Gln His Glu
 1 5 10 15

Phe Gly Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His
 20 25 30

Pro Asp Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln
 35 40 45

Tyr Ile His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Lys Glu Ser Trp
 50 55 60

Ser Ser His Ala Arg Thr Cys Thr Gly Ser His Cys Cys Gln Asn Lys
 65 70 75 80

Cys Val Met Ser Trp Trp Gln Arg Trp Ser Thr Thr Ala Ser Gly Gln
85 90 95

Ala Ala Gly Met Arg Ile Gln Gly Trp Leu Glu Ala Thr Arg Met Cys
100 105 110

Pro Pro Trp Thr Xaa His Met Lys Gln Val Gly Tyr Glu Asp Gln Trp
115 120 125

Leu Gln Leu Leu Arg Thr Tyr Val Gly Pro
130 135

<210> 240
<211> 233
<212> PRT
<213> Homo sapien

<400> 240

Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys Cys
1 5 10 15

Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val Trp Tyr
20 25 30

Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser Ala Leu Ala
35 40 45

Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu Gly Gly Asp Phe
50 55 60

Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala Ile Ala Ile Ser Leu
65 70 75 80

Leu Met Ile Leu Ile Cys Ala Met Ala Thr Tyr Gly Ala Tyr Lys Gln
85 90 95

Arg Ala Ala Trp Ile Ile Pro Phe Phe Cys Tyr Gln Ile Phe Asp Phe
100 105 110

Ala Leu Asn Met Leu Val Ala Ile Thr Val Leu Ile Tyr Pro Asn Ser
115 120 125

Ile Gln Glu Tyr Ile Arg Gln Leu Pro Pro Asn Phe Pro Tyr Arg Asp
130 135 140

375/383

Asp Val Met Ser Val Asn Pro Thr Cys Leu Val Leu Ile Ile Leu Leu
145 150 155 160

Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr Leu Ile Ser Cys Val
165 170 175

Trp Asn Cys Tyr Arg Tyr Ile Asn Gly Arg Asn Ser Ser Asp Val Leu
180 185 190

Val Tyr Val Thr Ser Asn Asp Thr Thr Val Leu Leu Pro Pro Tyr Asp
195 200 205

Asp Ala Thr Val Asn Gly Ala Cys Gln Gly Ala Pro Ala Pro Tyr Val
210 215 220

Leu Pro Lys Pro Ser Ser Gly Arg Thr
225 230

<210> 241
<211> 319
<212> PRT
<213> Homo sapien

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<223> X=any amino acid

<400> 241

Val Xaa Xaa Xaa Xaa Ser Pro Pro Leu Gln Pro Ser Pro Ser Glu Arg
1 5 10 15

Arg Val Pro Thr Arg Gln Lys Leu Gly Ala Leu Gly Val Ser Arg Arg
20 25 30

Gln Ala Arg Gly Arg Thr Gly Glu Arg Ala Gly Ser Arg Ser Gly Gly
35 40 45

Gly Ala Gly Ser Ser Gly Ala Ala Gly Ser Arg Arg Gly Gly Leu Gln
50 55 60

Ala Arg Arg Ser Thr Leu Leu Lys Thr Cys Ala Arg Ala Arg Ala Thr
65 70 75 80

Ala Pro Gly Ala Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser
85 90 95

376/383

Asn Ser Cys Cys Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu
 100 105 110

Gly Val Trp Tyr Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu
 115 120 125

Ser Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu
 130 135 140

Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala Ile
 145 150 155 160

Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met Ala Thr Tyr Gly
 165 170 175

Ala Tyr Lys Gln Arg Ala Ala Trp Ile Ile Pro Phe Phe Cys Tyr Gln
 180 185 190

Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile Thr Val Leu Ile
 195 200 205

Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu Pro Pro Asn Phe
 210 215 220

Pro Tyr Arg Asp Asp Val Met Ser Val Asn Pro Thr Cys Leu Val Leu
 225 230 235 240

Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr Leu
 245 250 255

Ile Ser Cys Val Trp Asn Cys Tyr Arg Tyr Ile Asn Gly Arg Asn Ser
 260 265 270

Ser Asp Val Leu Val Tyr Val Thr Ser Asn Asp Thr Thr Val Leu Leu
 275 280 285

Pro Pro Tyr Asp Asp Ala Thr Val Asn Gly Ala Cys Gln Gly Ala Pro
 290 295 300

Ala Leu Thr Cys Cys Leu Ser Leu Gln Val Gly Gly Pro Glu Gly
 305 310 315

<210> 242

<211> 76

<212> PRT

<213> Homo sapien

<400> 242

Met Asp Ser Ser Gly Ala Arg Ala Gly Thr Val Cys Thr Leu His Gly
1 5 10 15

Ile His Arg Gly His Gln Lys Pro Gly Leu Phe Leu Ser Arg Ser Ser
20 25 30

Asn Val Phe Ser Ser Asp Ser His His Leu Gln Leu Val Pro Thr Gln
35 40 45

Cys Cys His Ser Arg Leu Thr Gln Val Leu Arg Pro Ser Thr Ser Ser
50 55 60

Ala Ala Arg Ala His Leu Arg Leu Asp Cys Thr Ile
65 70 75

<210> 243

<211> 72

<212> PRT

<213> Homo sapien

<400> 243

Arg Ser Gly Cys Leu Ile Tyr Gly Leu Ala Leu Asp Ala Pro Ser Gly
1 5 10 15

Arg Ser Val Met Asp Ser Ser Gly Ala Arg Ala Gly Thr Val Cys Thr
20 25 30

Leu His Gly Ile His Arg Gly His Gln Lys Pro Gly Leu Phe Leu Ser
35 40 45

Arg Ser Ser Asn Ala Ser Ala Ala Ile Ala Thr Thr Tyr Ser Ser Ser
50 55 60

Pro His Ser Ala Ala Thr Ala Gly
65 70

<210> 244

<211> 61

<212> PRT

<213> Homo sapien

<400> 244

Met Gly Phe Ile Glu Ala Thr Arg Asn Gln Ala Phe Ser Cys Pro Glu
1 5 10 15

Val Pro Ser Phe Ser Ser Asp Ser His His Leu Gln Leu Val Pro Thr

20 25 30

Gln Cys Cys His Ser Arg Leu Thr Gln Val Leu Arg Pro Ser Thr Ser
35 40 45

Ser Ala Ala Arg Ala His Leu Arg Leu Asp Cys Thr Ile
50 55 60

<210> 245
<211> 57
<212> PRT
<213> Homo sapien

<400> 245

Arg Pro Pro Glu Thr Arg Pro Phe Leu Val Gln Lys Phe Gln Arg Phe
1 5 10 15

Ser Ser Asp Ser His His Leu Gln Leu Val Pro Thr Gln Cys Cys His
20 25 30

Ser Arg Leu Thr Gln Val Leu Arg Pro Ser Thr Ser Ser Ala Ala Arg
35 40 45

Ala His Leu Arg Leu Asp Cys Thr Ile
50 55

<210> 246
<211> 267
<212> PRT
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<222> (263)..(264)
<223> X=any amino acid

<220>
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<400> 246

Ala Asp Glu Thr Ser Glu Lys Glu Gln Gln Glu Ala Ile Glu His Ile
1 5 10 15

Asp Glu Val Gln Asn Glu Ile Asp Arg Leu Asn Glu Gln Ala Ser Glu
20 25 30

Glu Ile Leu Lys Val Glu Gln Lys Tyr Asn Lys Leu Arg Gln Pro Phe
 35 40 45
 Val Gln Lys Arg Ser Glu Leu Ile Ala Lys Ile Pro Thr Phe Leu Gly
 50 55 60
 Asn Asn Ile Cys Gln Pro Ser Thr Ser Val Cys Thr Ala Leu Arg Glu
 65 70 75 80
 Glu Asp Glu Glu Ala Leu His Tyr Leu Thr Arg Val Glu Val Thr Glu
 85 90 95
 Phe Glu Asp Ile Lys Ser Gly Tyr Arg Ile Asp Phe Asp Phe Asp Gly
 100 105 110
 Asn Pro Tyr Phe Glu Asn Lys Val Leu Ser Lys Glu Phe His Leu Asn
 115 120 125
 Glu Ser Gly Asp Pro Ser Ser Lys Ser Thr Glu Ile Lys Trp Lys Ser
 130 135 140
 Gly Lys Asp Leu Thr Lys Arg Ser Ser Gln Thr Gln Asn Lys Ala Ser
 145 150 155 160
 Arg Lys Arg Gln His Glu Glu Pro Glu Ser Phe Phe Thr Trp Phe Thr
 165 170 175
 Asp His Ser Asp Ala Gly Ala Asp Glu Leu Gly Glu Val Ile Lys Asp
 180 185 190
 Asp Ile Trp Pro Asn Pro Leu Gln Tyr Tyr Leu Val Pro Asp Met Asp
 195 200 205
 Asp Glu Glu Gly Glu Gly Glu Glu Asp Asp Asp Asp Asp Glu Glu Glu
 210 215 220
 Glu Gly Leu Glu Asp Ile Ala Lys Asn Gly Asp Glu Asp Glu Gly Asp
 225 230 235 240
 Gly Met Met Lys Ile Asp Asp Glu Val Gly Gly Thr Glu Gln Gly Gly
 245 250 255
 Leu Lys Lys Lys Phe Leu Xaa Xaa Pro Pro Xaa
 260 265

<210> 247

<211> 148
 <212> PRT
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Ser Phe Xaa Phe Asp Gly Asn Pro Tyr Phe Glu Asn Lys Val Leu Ser
 1 5 10 15

Xaa Glu Phe His Leu Asn Glu Ser Gly Asp Pro Ser Ser Lys Ser Thr
 20 25 30

Glu Ile Lys Trp Lys Ser Gly Lys Asp Leu Thr Lys Arg Ser Ser Gln
 35 40 45

Thr Gln Asn Lys Ala Ser Arg Lys Arg Gln His Glu Glu Pro Glu Ser
 50 55 60

Phe Phe Thr Trp Phe Thr Asp His Ser Asp Ala Gly Ala Asp Glu Leu
 65 70 75 80

Gly Glu Val Ile Lys Asp Asp Ile Trp Pro Asn Pro Leu Gln Tyr Tyr
85 90 95

Leu Val Pro Asp Met Asp Asp Glu Glu Gly Glu Gly Glu Glu Asp Asp
100 105 110

Asp Asp Asp Glu Glu Glu Glu Gly Leu Glu Asp Ile Ala Lys Lys Gly
115 120 125

Met Arg Met Lys Val Xaa Lys Xaa Lys Xaa Xaa Met Xaa Trp Glu Glu
130 135 140

Gly Gln Glu Asp
145

<210> 248
<211> 234
<212> PRT
<213> Homo sapien

<400> 248

Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys Cys
1 5 10 15

Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val Trp Tyr
20 25 30

Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser Ala Leu Ala
35 40 45

Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu Gly Gly Asp Phe
50 55 60

Glu Phe Met Asp Asp Ala Lys Ile Leu Phe Asn Leu Ser Ala Asp Met
65 70 75 80

Cys Ile Ala Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met
85 90 95

Ala Thr Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Trp Ile Ile Pro Phe
100 105 110

Phe Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
115 120 125

Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu

130 135 140
 Pro Pro Asn Phe Pro Tyr Arg Asp Asp Val Met Ser Val Asn Pro Thr
 145 150 155 160
 Cys Leu Val Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe
 165 170 175
 Lys Gly Tyr Leu Ile Ser Cys Val Trp Asn Cys Tyr Arg Tyr Ile Asn
 180 185 190
 Gly Arg Asn Ser Ser Asp Val Leu Val Tyr Val Thr Ser Asn Asp Thr
 195 200 205
 Thr Val Leu Leu Pro Pro Tyr Asp Asp Ala Thr Val Asn Gly Ala Ala
 210 215 220
 Lys Glu Pro Pro Pro Pro Tyr Val Ser Ala
 225 230

<210> 249
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 <213> Artificial sequence

<220>
 <223> Synthetic

<400> 249
 ggccaactct ttttactcct tcatt

25

<210> 250
 <211> 22
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic

<400> 250
 caggagcatc tccgttttca tt

22

<210> 251
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 <212> DNA
 <213> Artificial sequence

<220>
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<400> 251
 tccagtagtt gggcagtgct ggca

24

<210> 252
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<212> DNA
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<223> Synthetic

<400> 252
tcggcagaca tgtgcattg

19

<210> 253
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cgttgcttgt acgctccgta a

21

<210> 254
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<213> Artificial sequence

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<223> Synthetic

<400> 254
cattgcgatt tctcttctca tgatcctgat atg

33